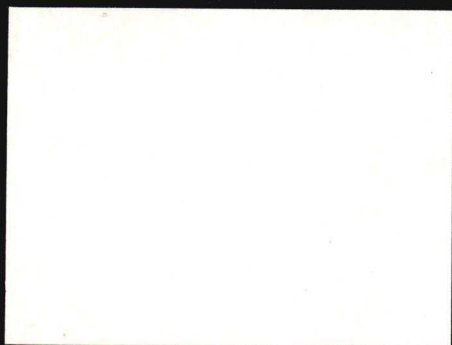


CATALOG 115 PTG

KLEIN TOOLS



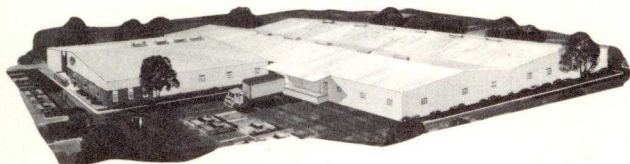
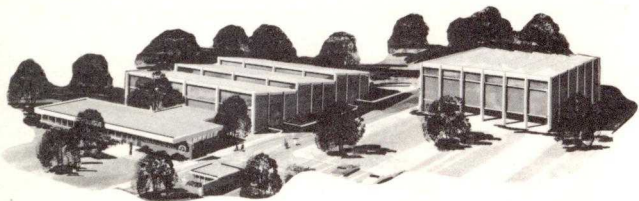
MATHIAS KLEIN & SONS, INC.
CHICAGO, ILLINOIS

KLEIN TOOLS

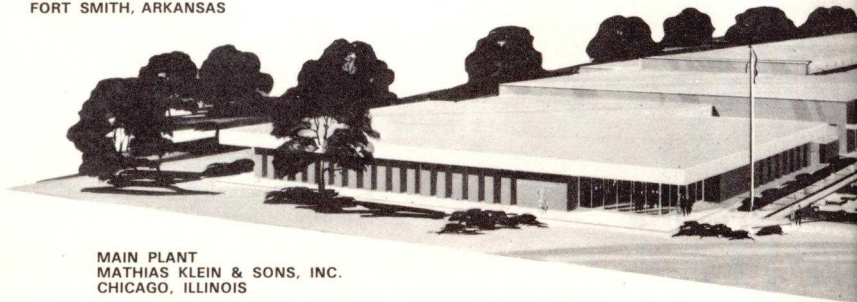
Over a century of experience manufacturing tools of professional quality for professional workers.

- LINEMEN
- ELECTRICIANS
- GENERAL INDUSTRY
- HEATING, AIR CONDITIONING, PIPING
- CONSTRUCTION WORKERS
- ELECTRONICS INDUSTRY

MEXICAN PLANT
HERRAMIENTAS KLEIN, S.A. De C.V.



KLEIN-BUHRKE PLANT
FORT SMITH, ARKANSAS



MAIN PLANT
MATHIAS KLEIN & SONS, INC.
CHICAGO, ILLINOIS

For over 100 years Klein has been the accepted leader in the design and manufacturing of tools for the professional workman. Starting when the first communication lines were strung, Klein has grown up with the electrical industry, pioneering in the many developments that have aided in making the electrical field, both power and communication, the great industries they are today.

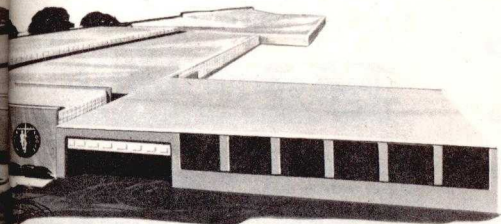
As the need for high quality tools and equipment expanded with the tremendous growth of the industrial field, Klein grew along with it and today offers a broad line of high quality hand tools specially designed for the professional.

Safety has always been of paramount concern in an industry that, despite every possible precaution, still presents hazards, and at Klein safety is given top priority in design and manufacturing.

In 1968, to meet the increasing needs for an expanded line of safety equipment to serve all industries, Klein acquired the R. H. Buhrke Company who had won an enviable reputation as a leader in the safety field dating back to 1890.

Mexico and other countries in Latin America also faced the problems that come with expanded industrial production and to serve these countries Klein organized a Mexican subsidiary, Herramientas Klein, and built a plant near Mexico City to produce high quality tools for this market.

Today the complete Klein Line has been expanded to serve the needs for high quality professional tools in the fields of Electricity, Communications, Electronics, Construction, Heating—Plumbing—Air Conditioning, and General Industry.

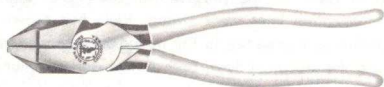


MATHIAS KLEIN & SONS, INC.

7200 McCormick Road, Chicago, Illinois 60645
Tel. (312) 588-6820 Telex 72-4431

HIGH LEVERAGE PLIER

U. S. Patent No. 2,746,145
Can. No. 532,760



Handles blue plastic dipped

Dimensions in inches*

Cat. No.	A	B	C	D	E	Av. Wt. Per Doz.
D213-9	9 1/4	1 1/32	1 1/16	5/8	2 5/32	13 1/2 lb.
213-9	With plain handles					12 1/2 lb.

SIDE CUTTING PLIER



Handles blue plastic dipped

Dimensions in inches*

Cat. No.	A	B	C	D	E	Av. Wt. Per Doz.
D201-6	6 1/4	1 3/32	2 3/32	1/2	9/16	5 1/2 lb.
201-6	With plain handles					5 1/4 lb.
D201-7	7 5/16	1 3/32	1 5/32	1/2	5/8	7 1/2 lb.
201-7	With plain handles					7 1/4 lb.
D201-8	8 1/2	1 7/16	1 7/32	5/8	2 3/32	11 1/2 lb.
201-8	With plain handles					11 1/4 lb.
D201-9	9 1/4	1 19/32	1 5/16	5/8	2 5/32	13 1/2 lb.
201-9	With plain handles					13 1/4 lb.

SIDE CUTTING PLIER (WITH SLEEVE TWISTERS)



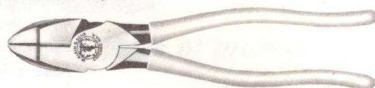
Sleeve openings for No. 12 NBS and No. 10 B&S (.104)
Handles blue plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	E	Av. Wt. Per Doz.
D212-8	8 1/2	1 7/16	1 7/32	5/8	2 3/32	11 1/2 lb.
212-8	With plain handles					11 1/4 lb.

HIGH LEVERAGE PLIER NE TYPE (STREAMLINED)

U. S. Patent No. 2,746,145
Can. No. 532,760

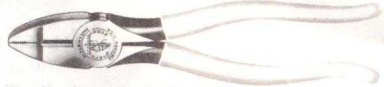


Handles blue plastic dipped

Dimensions in inches*

Cat. No.	A	B	C	D	E	Av. Wt. Per Doz.
D213-8NE	8 1/2	1 7/16	1 7/32	5/8	2 3/32	11 1/4 lb.
HD213-8NE	With Hi Dielectric yellow handles					11 1/2 lb.
213-8NE	With plain handles					11 lb.
D213-9NE	9 1/4	1 19/32	1 5/16	5/8	2 5/32	13 1/2 lb.
HD213-9NE	With Hi Dielectric yellow handles					13 1/2 lb.
213-9NE	With plain handles					12 1/2 lb.

SIDE CUTTING PLIER NE TYPE (STREAMLINED)



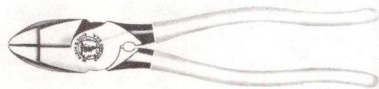
Handles blue plastic dipped

Dimensions in inches*

Cat. No.	A	B	C	D	E	Av. Wt. Per Doz.
D201-6NE	6 1/4	1 3/32	2 3/32	1/2	9/16	5 1/2 lb.
201-6NE	With plain handles					5 1/4 lb.
D201-7NE	7 5/16	1 3/32	1 3/32	1/2	5/8	7 1/2 lb.
201-7NE	With plain handles					7 1/4 lb.
D201-8NE	8 1/2	1 7/16	1 7/32	5/8	2 3/32	11 1/2 lb.
201-8NE	With plain handles					11 1/4 lb.
HD201-8NE	With Hi Dielectric yellow handles					11 3/4 lb.
D201-9NE	9 1/4	1 19/32	1 5/16	5/8	2 5/32	13 1/2 lb.
201-9NE	With plain handles					13 1/4 lb.

THREAD-HOLDING HIGH LEVERAGE PLIER NE TYPE (STREAMLINED)

U. S. Patent No. 2,746,145
Can. No. 532,760



5/8" Dia. 11 Thread

5/8 in. threaded opening permits holding threaded end of bolt without danger of stripping threads when removing or installing hardware on poles. Keeps all work on one side of pole. Installations are easier and safer.
Handles blue plastic dipped

Dimensions in inches*

Cat. No.	A	B	C	D	E	Av. Wt. Per Doz.
D213-9NE-TH	9 1/4	1 19/32	1 5/16	5/8	2 5/32	13 1/2 lb.
HD213-9NE-TH	With Hi Dielectric yellow handles					13 1/2 lb.
213-9NE-TH	With plain handles					13 1/4 lb.



HIGH LEVERAGE DIAGONAL CUTTING PLIER



Handles red plastic dipped

Dimensions in inches*

Cat. No.	A	B	C	D	Av. Wt. Per Doz.
D228-8	8	1 3/16	1 3/16	7/16	7 lb.



Bent Handles—Knives with Top Bevel

Handles red plastic dipped

Dimensions in inches*

Cat. No.	A	B	C	D	Av. Wt. Per Doz.
D248-8	8	1 3/16	1 3/16	7/16	7 1/4 lb.



Two skinning holes for 12- and 14-gauge wire

Handles red plastic dipped

Dimensions in inches*

Cat. No.	A	B	C	D	Av. Wt. Per Doz.
D243-8	8	1 3/16	1 3/16	7/16	7 1/4 lb.

DIAGONAL CUTTING PLIER

Heavy-Duty Pattern with "Handform" Handles



Handles red plastic dipped

Dimensions in inches*

Cat. No.	A	B	C	D	Av. Wt. Per Doz.
D220-7	7 11/16	1	31/32	1/2	7 1/4 lb.
220-7	With plain handles				7 lb.

HIGH LEVERAGE IRON WORKER'S PLIER

U. S. Patent No. 2,746,145

Can. No. 532,760



Similar to 213-9NE but has hook bend on handle.

Dimensions in inches*

Cat. No.	A	B	C	D	E	Av. Wt. Per Doz.
213-9-ST	9 7/32	1 7/16	1 7/32	5/8	2 3/32	12 1/2 lb.

IRON WORKER'S SIDE CUTTER



Similar in style to the famous Klein Side Curting Plier 201-7 but has a coil spring to hold the jaws open and a hook bend in the handle.

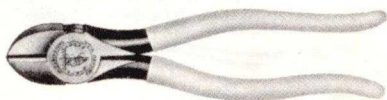
Dimensions in inches*

Cat. No.	A	B	C	D	E	Av. Wt. Per Doz.
201-7C-ST	8 3/4	1 7/32	1 7/32	1/2	5/8	7 1/4 lb.

*For dimension drawings of Klein Pliers, see page 14.

DIAGONAL CUTTING PLIER

Short Nose Heavy-Duty Pattern with "Handform" Handles

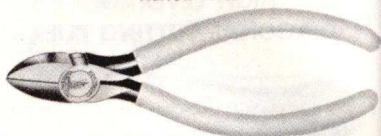


Handles red plastic dipped

Cat. No.	Dimensions in inches*				Av. Wt. Per Doz.
	A	B	C	D	
D220-7SN	7 1/4	3/8	31/32	1/2	7 lb.
220-7SN	With plain handles				6 3/4 lb.

DIAGONAL CUTTING PLIER

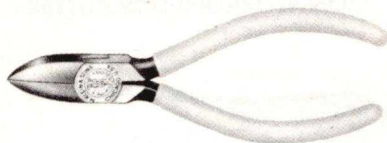
Narrow Nose



Handles red plastic dipped

Cat. No.	Dimensions in inches*				Av. Wt. Per Doz.
	A	B	C	D	
D202-5	5 1/2	13/16	11/16	7/16	4 lb.
D202-5C	Same as above with coil spring				3 3/4 lb.
202-5	With plain handles				4 1/4 lb.
D202-6	6 1/16	13/16	11/16	7/16	4 1/4 lb.
D202-6C	Same as above with coil spring				4 lb.
202-6	With plain handles				4 lb.

DIAGONAL CUTTING PLIER

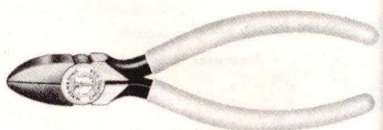


Handles red plastic dipped

Cat. No.	Dimensions in inches*				Av. Wt. Per Doz.
	A	B	C	D	
D245-5	5	11/16	9/16	3/8	3 lb.
D245-5C	Same as above with coil spring,				3 lb.
245-5	With plain handles				2 3/4 lb.

DIAGONAL CUTTING PLIER

Heavy-Duty Pattern

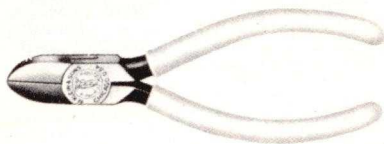


Handles red plastic dipped

Cat. No.	Dimensions in inches*				Av. Wt. Per Doz.
	A	B	C	D	
D252-6	6	13/16	3/4	7/16	4 1/4 lb.

DIAGONAL CUTTING PLIER

With "W" Stripping Notches

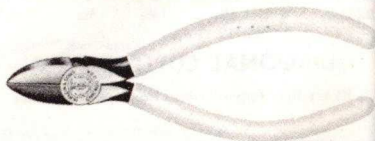


Handles red plastic dipped

Cat. No.	Dimensions in inches*				Av. Wt. Per Doz.
	A	B	C	D	
D245-5-W	5	11/16	9/16	3/8	3 lb.

DIAGONAL CUTTING PLIER

Semi-Flush Cutting



For plastic trimming or printed circuit board work
Handles red plastic dipped. Supplied with coil spring

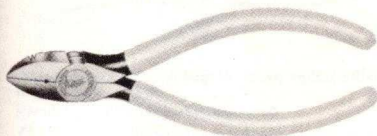
Cat. No.	Dimensions in inches*				Av. Wt. Per Doz.
	A	B	C	D	
D210-5C	5 1/2	13/16	11/16	7/16	3 3/4 lb.
D210-6C	6 1/16	13/16	11/16	7/16	4 lb.

For description on coil springs see page 13T



DIAGONAL CUTTING PLIER

Bell System Type



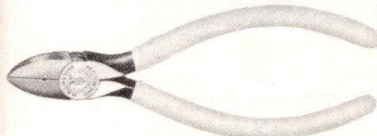
With "W" stripping notches and .052" skinning hole. Handles red plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	Av. Wt. Per Doz.
D202-5-SW	5 1/2	13/16	1 1/16	7/16	4 lb.
202-5-SW	With plain handles				3 3/4 lb.
D252-6-SW	6	13/16	3/4	7/16	4 1/4 lb.

DIAGONAL CUTTING PLIER

With .052" Skinning Hole



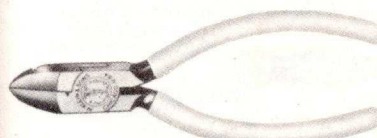
Handles red plastic dipped

Dimensions in inches*

Cat. No.	A	B	C	D	Av. Wt. Per Doz.
D240-5	5 1/2	13/16	1 1/16	7/16	4 lb.
D240-6	6 1/16	13/16	1 1/16	7/16	4 1/4 lb.

DIAGONAL CUTTING PLIER

Bell System Type "V" Notch Pattern



Designed for work on switchboards. "W" notch is provided to slit insulation. "V" notch at hinge to crush insulation. Handles red plastic dipped

Dimensions in inches*

Cat. No.	A	B	C	D	Av. Wt. Per Doz.
D528-V	5	5/8	7/16	3/8	2 3/4 lb.

HIGH LEVERAGE END CUTTING PLIER

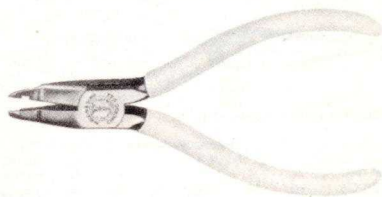


Permits cutting wire or nails close to work. "Hand-form" handles as used in Klein Side Cutting Pliers. Handles red plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	E	Av. Wt. Per Doz.
D232-8	7 1/32	7/8	1 1/2	1/2	1 1/2	7 3/4 lb.

SPECIAL SKINNING PLIER

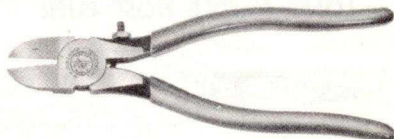


This plier designed for cutting and skinning 24-gauge synthetic coated wire. Notch back of cutting blade crushes insulation. Sharp blade provides quick, clean cut. Tapered nose reaches into confined space. Handles red plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	E	Av. Wt. Per Doz.
D317-5P	5 1/4	7/8	1/2	5/16	1/4	2 1/2 lb.

DIAGONAL PLASTIC CUTTING PLIER



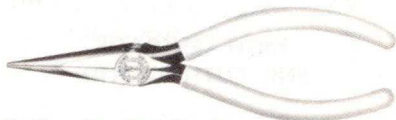
Designed with flush cutting knives for clean cutting of sprues, gates and other plastic cutting operations. Fast—precise cutting. Screw adjustment with 1/16 inch hollow head screw keeps knife edges from damaging each other. Not designed for use on metal. Supplied with coil spring.

Dimensions in inches*

Cat. No.	A	B	C	D	Av. Wt. Doz.
D227-7C	7 1/16	1 1/2	3 1/32	1/2	15 lb.

*For dimension drawings of Klein Pliers, see page 14.T

LONG NOSE PLIER

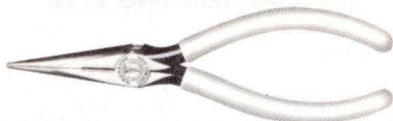


Handles yellow plastic dipped

Dimensions in inches*

Cat. No.	A	B	C	D	F	Av. Wt. Per Doz.
D301-5	5 9/16	1 1/16	1 1/16	3/8	3/32	3 1/4 lb.
D301-5C	Same as above but with coil spring, 1/16" point					3 lb.
301-5	With plain handles					4 lb.
D301-6	6 3/8	1 15/16	1 1/16	3/8	3/32	4 1/4 lb.
D301-6C	Same as above but with coil spring, 1/16" point					3 3/4 lb.
301-6	With plain handles					4 1/4 lb.
D301-7	7 1/8	2 1/16	1 1/16	3/8	3/32	4 1/4 lb.
D301-7C	Same as above but with coil spring, 1/16" point					4 lb.
301-7	With plain handles					4 lb.

LONG NOSE SIDE CUTTING PLIER

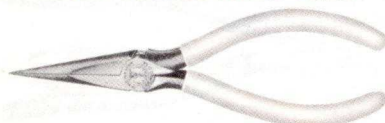


Handles yellow plastic dipped

Dimensions in inches*

Cat. No.	A	B	C	D	E	F	Av. Wt. Per Doz.
D203-5	5 9/16	1 7/16	1 1/16	3/8	1/2	3/32	3 1/4 lb.
D203-5C	Same as above but with coil spring					Point 1/16	3 1/4 lb.
203-5	With plain handles						3 lb.
D203-6	6 3/8	1 15/16	1 1/16	3/8	1/2	3/32	4 lb.
D203-6C	Same as above but with coil spring					Point 1/16	4 lb.
203-6	With plain handles						3 3/4 lb.
203-6C	With plain handles and coil springs.						4 lb.
D203-7	7 1/8	2 1/16	1 1/16	3/8	1/2	3/32	4 1/4 lb.
D203-7C	Same as above but with coil spring					Point 1/16	4 1/4 lb.
203-7	With plain handles						4 lb.

LONG NEEDLE NOSE PLIER



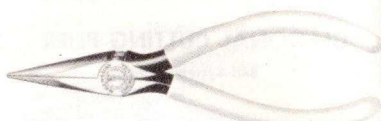
Similar to 301 series but with point only 1/16 in. diam.
Handles yellow plastic dipped

Dimensions in inches*

Cat. No.	A	B	C	D	F	Av. Wt. Per Doz.
D303-6	6 3/8	1 15/16	1 1/16	3/8	1/16	4 lb.
303-6	With plain handles					3 3/4 lb.

For description on coil springs see page 13T

CHAIN NOSE PLIER



Handles yellow plastic dipped

Dimensions in inches*

Cat. No.	A	B	C	D	E	F	Av. Wt. Per Doz.
D317-6	5 15/16	1 3/16	1 1/16	3/8	—	3/32	3 3/4 lb.

8 in. LONG NOSE PLIER NEW IMPROVED DESIGN



Handles yellow plastic dipped

Dimensions in inches*

Cat. No.	A	B	C	D	F	Av. Wt. Per Doz.
D314-8	8	1 15/16	1 1/16	3/8	3/32	4 3/4 lb.

With knurl.

8 in. DUCK BILL PLIER NEW IMPROVED DESIGN



Handles yellow plastic dipped

Dimensions in inches*

Cat. No.	A	B	C	D	F	Av. Wt. Per Doz.
D315-8	8	1 9/16	1 1/16	3/8	3/32 x 17/64	4 3/4 lb.

With knurl.



LONG NOSE CUTTING PLIER

Heavy-Duty Pattern

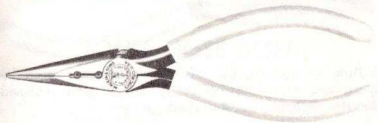


"Handform" handle, 203-8N has skinning hole for #12 B & S insulated wire. Handles yellow plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	E	F	Av. Wt. Per Doz.
D203-8	8 5/16	2 5/16	1	1/2	5/8	1/8	8 1/4 lb.
203-8	With plain handles						8 lb.
D203-8N	8 5/16	2 5/16	1	1/2	5/8	1/8	8 1/4 lb.
203-8N	With plain handles						8 lb.

LONG NOSE SIDE CUTTING PLIER

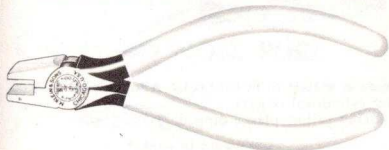


Similar in design to 203 but with two notches designed to strip insulated wire gauges 19 and 22. Designed for telephone switchboard work. Handles yellow plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	E	F	Av. Wt. Per Doz.
D203-6-H2	6 5/8	1 15/16	1 1/16	3/8	1/2	3/32	4 lb.

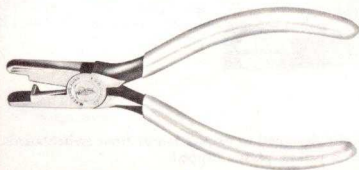
CONNECTOR CRIMPING PLIER



Designed to seat UG, UR and UY connectors. Stop behind cutout prevents damage to connectors. Handles yellow plastic dipped.

Dimensions in inches*

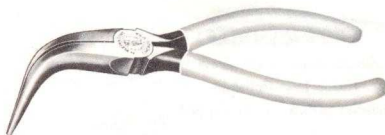
Cat. No.	A	B	C	D	Av. Wt. Per Doz.
D334-5	5 3/8	5/8	1 1/16	3/8	3 lb.



Similar to D334-5 but with cutting knives added. Handles yellow plastic dipped.

Cat. No.	A	B	C	D	Av. Wt. Per Doz.
D234-6	6	5/8	1 1/16	3/8	3 1/4 lb.

CURVED NOSE PLIER

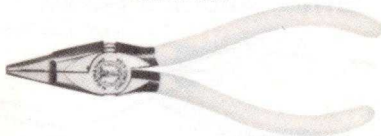


Handles yellow plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	E	F	Av. Wt. Per Doz.
D302-6	6 1/4	1 1/2	1 1/16	3/8	1 3/4	3/32	3 1/2 lb.

LONG NOSE INSULATION SKINNER



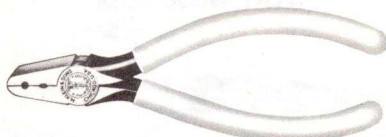
A special plier for telephone work designed to skin 22- or 24-gauge wire. Will crack insulation in slot provided in nose.

Handles yellow plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	F	Av. Wt. Per Doz.
D2291	6	-1 1/4	1 1/16	3/8	1/16	3 1/2 lb.

CORD-TIP CLOSING PLIER



Sturdy jaws permit using plier as press for closing cord tips such as W.E. new Nos. 120 and 130. Diameter of holes are .129 in. and .156 in.

Handles yellow plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	Av. Wt. Per Doz.
D039	5 7/16	3/4	1 1/16	3/8	3 1/2 lb.

*For dimension drawings of Klein Pliers, see page 14.T

DUCK BILL PLIER

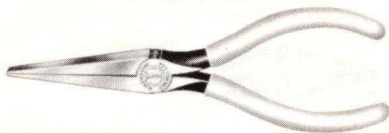


Inside Jaws Polished
Handles yellow plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	F	Av. Wt. Per Doz.
D306-5 1/2	5 13/16	1 3/4	17/32	5/16	1/8	3 lb.
D306-5 1/2 C	Same as above but with coil spring					3 lb.

DUCK BILL PLIER

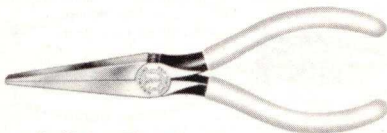


Inside Jaws Smooth
Handles yellow plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	E	F	Av. Wt. Per Doz.
D304-6	6 1/2	2 5/16	1 1/16	3/8	—	3/8	4 lb.

FLAT NOSE PLIER



Inside Jaws Knurled
Handles yellow plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	E	F	Av. Wt. Per Doz.
D305-6	6 1/2	2 5/16	1 1/16	3/8	—	5/16	4 lb.

SPRING ADJUSTING PLIER

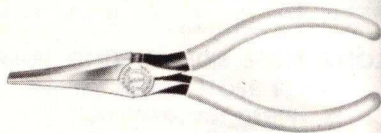


Inside Jaws Polished
Handles yellow plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	F	Av. Wt. Per Doz.
D326-5	5 3/16	1 3/16	17/32	5/16	5/32 x 1/16	3 lb.

RELAY SPRING ADJUSTING PLIER

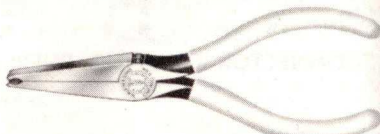


Hollow ground on the outside of jaws, to reach between and grasp springs easily. Inside jaws polished. Handles yellow plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	F	Av. Wt. Per Doz.
D311-5 1/2	5 15/16	1 5/8	1 1/16	3/8	5/32 x 1/16	3 1/2 lb.

HEAT COIL PLIER

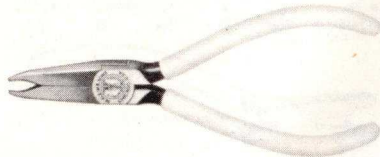


Nose is shaped to fit heat coils. Also, helpful in holding cylindrical objects. Handles yellow plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	F	Av. Wt. Per Doz.
D313-6	6	1 13/16	1 1/16	3/8	1 1/32	3 3/4 lb.

LAMP CAP EXTRACTOR



Specially designed to extract lamps from switchboards. Handles yellow plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	F	Av. Wt. Per Doz.
D319-B	5 1/4	1 1/4	1/2	5/16	1/32	2 1/2 lb.

MATHIAS KLEIN & SONS INC.

SPECIALTY PLIERS FOR ELECTRONICS INDUSTRY

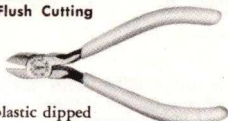


The electronics industry requires many pliers designed to meet highly specialized needs. Shown here are pliers developed by Klein engineers to serve this field. These

pliers are supplied from stock. All long nose pliers have jaw edges rounded to prevent nicking wire.

DIAGONAL CUTTING PLIER

Semi-Flush Cutting

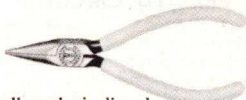


Handles red plastic dipped

Dimensions in inches*

Cat. No.	A	B	C	D	Av. Wt. Per Doz.
D257-4	4 $\frac{3}{16}$	$\frac{1}{2}$	$\frac{7}{16}$	$\frac{1}{4}$	1 $\frac{1}{4}$ lb.
D257-4C	Same as above but with coil spring				1 $\frac{1}{4}$ lb.

LONG NOSE PLIER

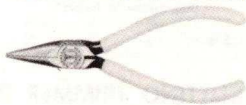


Handles yellow plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	F	Av. Wt. Per Doz.
D321-4 $\frac{1}{2}$	4 $\frac{3}{4}$	1 $\frac{1}{16}$	$\frac{7}{16}$	$\frac{1}{4}$	$\frac{1}{32} \times \frac{1}{16}$	1 $\frac{1}{2}$ lb.
D321-4 $\frac{1}{2}$ C	Same as above but with coil spring					1 $\frac{1}{2}$ lb.

LONG NOSE PLIER



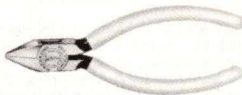
Similar to D321-4 $\frac{1}{2}$ but jaws are without knurl and jaw edges are radiused. Handles blue plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	F	Av. Wt. Per Doz.
D322-4 $\frac{1}{2}$	4 $\frac{3}{4}$	1 $\frac{1}{16}$	$\frac{7}{16}$	$\frac{1}{4}$	$\frac{1}{32} \times \frac{1}{16}$	1 $\frac{1}{2}$ lb.
D322-4 $\frac{1}{2}$ C	Same as above but with coil spring					

DIAGONAL CUTTING PLIER

Lightweight, Pointed Nose, Semi-Flush Cutting



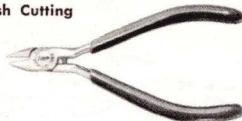
Handles red plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	Av. Wt. Per Doz.
D209-4C	4 $\frac{3}{16}$	$\frac{1}{2}$	$\frac{7}{16}$	$\frac{1}{4}$	1 lb.
D209-5	5	$\frac{11}{16}$	$\frac{9}{16}$	$\frac{3}{8}$	2 $\frac{3}{4}$ lb.
D209-5	With plain handles				2 $\frac{1}{2}$ lb.
D209-5C	With plastic handles and coil spring				2 $\frac{1}{2}$ lb.
D209-5C	With plain handles and coil spring				2 $\frac{1}{2}$ lb.

MIDGET DIAGONAL CUTTER

Full Flush Cutting



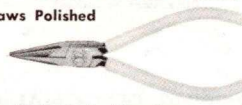
An extra small diagonal cutting plier for precision work. Recommended for use on small wire only. Small head permits working in confined area and assures maximum visibility. Supplied with coil spring. Handles red plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	Av. Wt. Per Doz.
D295-4C	4 $\frac{3}{16}$	$\frac{1}{2}$	$\frac{3}{8}$	$\frac{1}{4}$	1 $\frac{1}{4}$ lb.

FLAT NOSE PLIER

Inside Jaws Polished



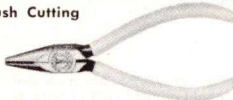
Handles yellow plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	F	Av. Wt. Per Doz.
D323-4 $\frac{1}{2}$	4 $\frac{3}{4}$	1 $\frac{1}{16}$	$\frac{7}{16}$	$\frac{1}{4}$	$\frac{1}{8} \times \frac{1}{16}$	1 $\frac{1}{2}$ lb.
D323-4 $\frac{1}{2}$ C	Same as above but with coil spring					1 $\frac{1}{2}$ lb.

TRANSVERSE END CUTTING PLIER

Semi-Flush Cutting



Handles green plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	E	F	Av. Wt. Per Doz.
D224-4 $\frac{1}{2}$ C	4 $\frac{3}{8}$	$\frac{13}{16}$	$\frac{7}{16}$	$\frac{1}{4}$	$\frac{1}{8}$	$\frac{1}{8}$	1 $\frac{1}{2}$ lb.

*For dimension drawings of Klein Pliers, see page 14.T
PAGE 9 T

HIGH HARDNESS PLIER

For Cutting Nickel Ribbon Wire

Semi-Flush Cutting



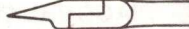
Cutting knives Rockwell hardness C60—as hard as a file. Designed for cutting nickel ribbon wire. Nose $\frac{1}{16}$ in. at tip, permitting use in confined space. Each plier is hand honed under a magnifying glass. Bevel on knife is .005 to .008 in. Cutting knife at tip $\frac{3}{16}$ in. long. High gloss finish standard. Handles red plastic dipped. Supplied with coil spring.

Dimensions in inches*

Cat. No.	A	B	C	D	Av. Wt. Per Doz.
D230-4C	$4\frac{3}{16}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{7}{16}$	1 $\frac{1}{4}$ lb.

DIAGONAL CUTTING PLIER

Semi-Flush Cutting



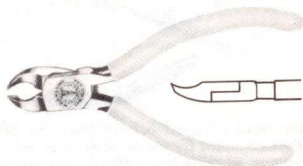
Similar in design to 209 Series, but relieved in the back to allow entry into confined areas. Handles red plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	Av. Wt. Per Doz.
D219-4C	$4\frac{3}{16}$	$\frac{1}{2}$	$\frac{7}{16}$	$\frac{1}{4}$	1 $\frac{1}{2}$ lb.
D219-5C	5	$\frac{3}{8}$	$\frac{1}{16}$	$\frac{3}{8}$	2 $\frac{3}{4}$ lb.

MATRIX CUTTER

Semi-Flush Cutting



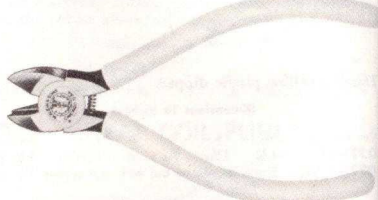
For Miniature Electronic Assemblies

Combines advantages of end cutter and diagonal cutter. Extra high hardness cutting blade for cutting nickel ribbon. Supplied with coil spring and red plastic dipped handles. High gloss finish standard.

Dimensions in inches*

Cat. No.	A	B	C	D	Av. Wt. Per Doz.
D263-4C	4 in.	$\frac{3}{16}$	$\frac{7}{16}$	$\frac{1}{4}$	1 $\frac{1}{2}$ lb.

DIAGONAL CUTTER FOR PRINTED CIRCUITS



Cuts and crimps wire on printed circuits in one operation. Holds wire in place permitting efficient dip soldering. Supplied with coil spring. Handles red plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	Av. Wt. Per Doz.
D052-C	$5\frac{1}{8}$	$\frac{7}{16}$	$1\frac{1}{16}$	$\frac{3}{8}$	3 lb.

WIRE GRIPPING DIAGONAL CUTTER

Semi-Flush Cutting

Pat. No. 2,938,266



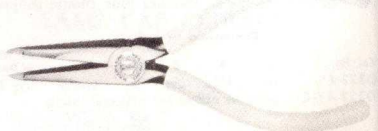
Similar in design to D209-5, but with steel springs between jaws to hold clipped ends of wire. Supplied with coil spring. Handles red plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	Av. Wt. Per Doz.
D229-5C	5	$1\frac{1}{16}$	$\frac{7}{16}$	$\frac{3}{8}$	2 $\frac{3}{4}$ lb.

END CUTTING TRIMMER PLIER

Semi-Flush Cutting



Long nose end cutting plier with cutting edges set at 45° angle. Ideal for trimming printed circuit boards. Valuable in repair of electronic systems. Supplied with coil spring.

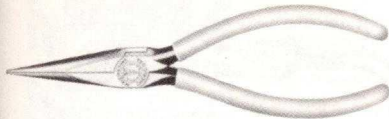
Handles red plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	F	Av. Wt. Per Doz.
D211-6C	$6\frac{1}{2}$	$1\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{8}$	$\frac{1}{8}$	3 $\frac{3}{4}$ lb.



SLIM LONG NOSE PLIER



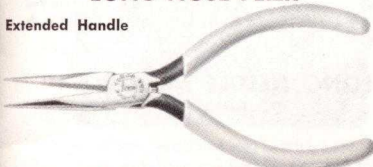
Handles yellow plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	F	Av. Wt. Per Doz.
D307-5 1/2	5 13/16	1 3/4	1 7/32	5/16	1/16	2 1/2 lb.
D307-5 1/2 C	Same as above but with coil spring,					

LONG NOSE PLIER

Extended Handle



Ideal for production line use. Wider span of grip and extended handles provide greater comfort. Handles yellow plastic dipped. Supplied with coil spring. Needle nose point only 1/32 in.

Dimensions in Inches*

Cat. No.	A	B	C	D	F	Av. Wt. Per Doz.
D309-6C	5 15/16	1 3/4	1/2	5/16	1/32	3 1/2 lb.

LONG NOSE SIDE CUTTING PLIER

Extended Handle



Same as above but with knife.

Dimensions in Inches*

Cat. No.	A	B	C	D	E	F	Av. Wt. Per Doz.
D222-6C	5 15/16	1 3/4	1/2	5/16	1 13/32	1/32	3 1/2 lb.

SLIM NOSE PLIER



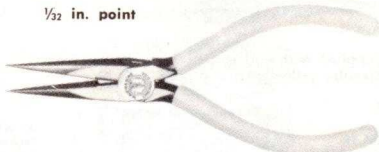
Similar to D307-5 1/2, but jaws are polished and edges radiused—no knurl. Supplied with coil spring. Handles blue plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	F	Av. Wt. Per Doz.
D327-5 1/2 C	5 13/16	1 3/4	1 7/32	5/16	1/16	2 1/2 lb.

NEEDLE NOSE SIDE CUTTING PLIER

1/32 in. point



Needle nose point only 1/32 in. diameter. Supplied with coil spring. Handles yellow plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	E	F	Av. Wt. Per Doz.
D221-5 1/2 C	5 13/16	1 3/4	1 7/32	5/16	7/16	1/32	2 1/2 lb.

NEEDLE NOSE PLIER



Supplied with coil spring. Handles yellow plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	E	F	Av. Wt. Per Doz.
D301-6-SCP-C	6 5/8	1 15/16	1 1/16	3/8	1/2	1/16	3 1/2 lb.
D203-6-SCP-C	Same as above but with side cutting knives						3 1/4 lb.

LONG NOSE PLIER

Knife at Point

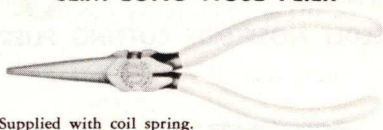


Similar to D301-6PC, but nose has been reduced in thickness as illustrated. Supplied with coil spring. Handles yellow plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	E	F	Av. Wt. Per Doz.
D317-6PC	6	1 1/4	1 1/16	3/8	5/16	1/16	3 1/4 lb.

S LIM LONG NOSE PLIER

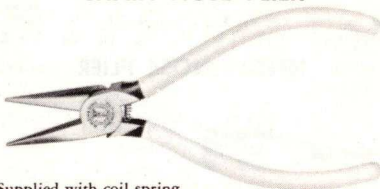


Supplied with coil spring.
Handles yellow plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	F	Av. Wt. Per Doz.
D310-6C	6 ⁵ / ₁₆	1 ¹⁵ / ₁₆	1 ¹¹ / ₁₆	3 ³ / ₈	1 ¹ / ₁₆	3 ³ / ₄ lb.

C HAIN NOSE PLIER

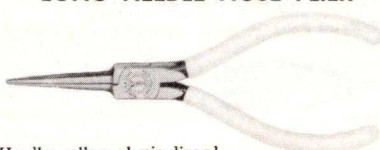


Supplied with coil spring.
Handles yellow plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	F	Av. Wt. Per Doz.
D317-5C	5 ¹ / ₄	1 ¹ / ₈	1 ¹ / ₂	5 ⁵ / ₁₆	1 ¹ / ₁₆	2 ¹ / ₄ lb.

L ONG NEEDLE NOSE PLIER



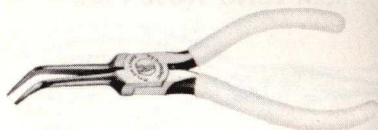
Handles yellow plastic dipped.

Dimensions in inches*

Cat. No.	A	B	C	D	F	Av. Wt. Per Doz.
D318-5 ¹ / ₂	5 ¹³ / ₃₂	1 ³ / ₄	1 ¹ / ₂	5 ⁵ / ₁₆	1 ¹ / ₁₆	2 ¹ / ₂ lb.
D318-5 ¹ / ₂ C	Same as above but with coil spring,					2 ¹ / ₂ lb.

C URVED NEEDLE NOSE PLIER

No Knurl



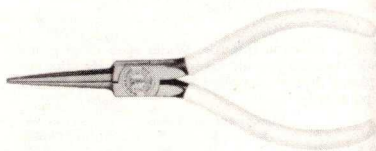
Will reach in confined space. Inside jaws polished and edges radiused. Coil spring holds jaws open. Handles blue plastic dipped.

Dimensions in inches

Cat. No.	A	B	C	D	F	Av. Wt. Per Doz.
D338-5 ¹ / ₂ C	5 ¹ / ₂	1 ³ / ₄	1 ¹ / ₂	3 ⁵ / ₁₆	1 ¹ / ₁₆	2 ¹ / ₂ lb.

L ONG NEEDLE NOSE PLIER

No Knurl

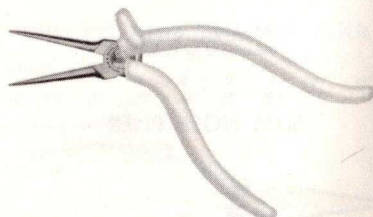


Similar to D318-5 ¹/₂, but jaws are polished and edges radiused. Coil spring. Handles blue plastic dipped.

Dimensions in inches

Cat. No.	A	B	C	D	F	Av. Wt. Per Doz.
D328-5 ¹ / ₂ C	5 ¹³ / ₃₂	1 ³ / ₄	1 ¹ / ₂	3 ⁵ / ₁₆	1 ¹ / ₁₆	2 ¹ / ₂ lb.

F ATIGUE-REDUCING PLIER



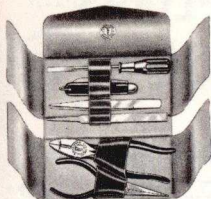
Designed and produced in conjunction with engineers at Western Electric. Minimizes bending of wrist. Undue strain and fatigue are reduced. Coil spring holds jaws open. Handles red plastic dipped.

Dimensions in inches

Cat. No.	A	B	C	D	Av. Wt. Per Doz.
D366-6C	7 ¹ / ₂	2	1 ¹ / ₁₆	3 ⁵ / ₈	6 ¹ / ₂ lb.



POCKET TOOL KITS



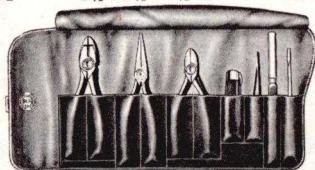
Genuine leather folding case containing the following tools:

- 1 No. 201-6NE Side Cutting Plier
- 1 No. 301-6 Long Nose Plier
- 1 No. 1550-2 Electrician's Knife
- 1 5-in. Electrician's Tweezers
- 1 4-in. File and Handle
- 1 Screwdriver 3-in.

Cat. No.
1305-2

Size Closed
6 1/2 x 3 1/2 x 1 1/2 in.

Approx. Wt. Each
1 1/4 lb.



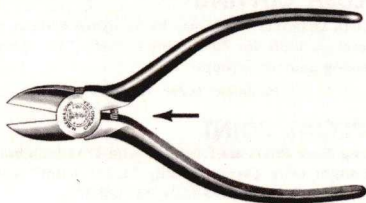
Handy kit for electricians and service men. Genuine leather roll with strap and buckle. Contains following tools:

- 1 No. 201-6 NE Side Cutting Plier
- 1 No. 301-6 Long Nose Plier
- 1 No. 202-5 Diagonal Cutting Plier
- 1 No. 1550-2 Electrician's Knife
- 1 4-in. File and Handle
- 1 5-in. Electrician's Tweezers
- 1 Screwdriver 3-in.

Cat. No.
1305-33A

Approx. Wt. Each
1 1/2 lb.

KLEIN PLIERS WITH COIL SPRINGS



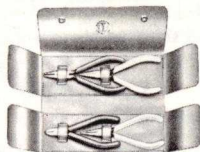
Pliers carrying designation "C" after the number are supplied with plated coil spring to hold jaws open. Sturdy spring assures long trouble-free service. Inside of handle is free of any obstruction.

SLIP-ON HANDLES



Slip-on plastic handles are available in red. Minimum order 12 pair of any one size.

Cat. No.	Size	Av. Wt. Per Doz. Pr.
34	To fit 4-in. - 4 1/2-in. pliers	3/4 lb.
35	To fit 5-in. - 5 1/2-in. pliers	3/4 lb.
36	To fit 6-in. - 6 1/2-in. pliers	3/4 lb.



Handy kit holding four midjet pliers. Fits the pocket. Case of genuine leather with two snaps.

- 1 No. D 257-4 Diagonal Cutting Plier
- 1 No. D 224-4 1/2 C End Cutting Plier
- 1 No. D 321-4 1/2 Long Nose Plier
- 1 No. D 323-4 1/2 Duck Bill Plier

Cat. No.
1305-4

Size Closed
7 x 2 3/4 x 1 in.

Approx. Wt. Each
3/4 lb.

DIPPED PLASTIC HANDLES

For pliers with dipped plastic handles, indicate prefix "D" before the catalog number, as D203-6. Furnished in following colors:

- Diagonal Pliers—Red
- End Cutting Pliers—Green
- Long Nose Pliers—Yellow
- Side Cutting Pliers—Blue

"KLEIN-KOAT" TENITE HANDLES



Provide non-skid grip and greater comfort. Transparenc "Tenite" plastic in bright maroon.

Cat. No.	Size	Av. Wt. Per Doz. Pr.
60	To fit 6-in. pliers	3/4 lb.
70	To fit 7-in. pliers	1 1/4 lb.
89	To fit 8-in. or 9-in. pliers	1 1/4 lb.

COMFORT GRIP HANDLES



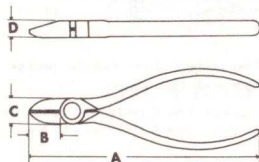
An exclusive Klein plier handle made of aerated plastic material to provide a firm but resilient cushion. Safety grip prevents slipping even when hands are wet. Red only.

Cat. No.	Size	Av. Wt. Per Doz. Pr.
55	To Fit 5-in. through 6 1/2-in. pliers	3/4 lb.

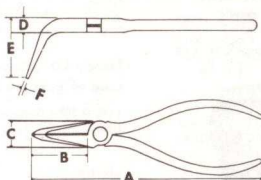
DIMENSIONS OF KLEIN PLIERS

Below are shown drawings of Klein Pliers. These will serve as a key to show the dimensions of any pliers shown on pages 2 through 13. All dimensions subject to commercial tolerances.

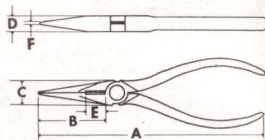
OBLIQUE CUTTING PLIER



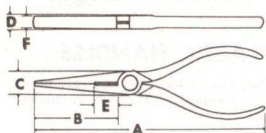
CURVED NOSE PLIER



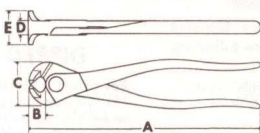
CHAIN AND LONG NOSE PLIER



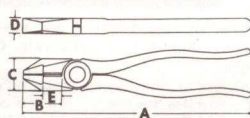
FLAT AND DUCK BILL PLIER



END CUTTING PLIER



SIDE CUTTING PLIER



SPECIAL FEATURES AVAILABLE ON KLEIN PLIERS

FINISHES

Fully Polished Finish

Klein Pliers may be furnished fully polished standard 120 grit finish. Prefix "FP" before catalog number. Example: FP 203-6. Minimum order 12 pairs.

High-Gloss Finish

Klein Pliers may be furnished with a fully polished high-gloss, buffed finish. Buffing is performed over 300 grit finish to assure a high luster, resembling buffed chrome plate finish. Prefix "HG" before catalog number. Example: HG 203-6. Minimum order 12 pairs.

Chrome-Plated Finish

Klein Pliers may be furnished with chrome plate over standard finish. This produces a Satin appearance. For High Gloss to Nickel Chrome finish, prefix HGNC before catalog number. Example: HGNC 203-6. Minimum order 12 pairs.

Hi Di-ELECTRIC PLIER HANDLES

Plier handles are yellow plastic-dipped to provide di-electric strength. Pliers listed below are available from stock with Hi Di electrical handles. Other pliers are available on order. Write for information.

HD201-8NE

HD213-8NE

HD213-9NE

HD502-10

HD502-12

HD213-9NE-TH

Dielectric data furnished on request to responsible personnel.

FLUSH CUTTING

Klein Diagonal Pliers may be furnished without top bevel on knife for flush cutting. Prefix "FC" before catalog number. Example: FC 245-5.

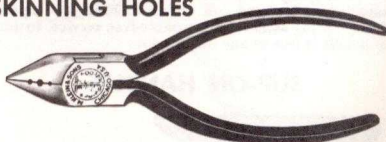
Minimum order 12 pairs

SPECIAL POINT

Long Nose Pliers are furnished with 1/32-inch point at slight extra charge. Specify "1/32" point" when ordering. Example: 203-6C 1/32" point.

Minimum order 12 pairs

SKINNING HOLES



In pliers having cutting knives, skinning holes may be had to order. Holes are brought to a sharp edge through countersinking, assuring clean removal of any insulation. 1, 2 or 3 holes of various sizes may be placed into each plier. Illustrated is the 209-5 with stripping holes for 19 gauge, 22 gauge and 24 gauge wire. Prices on application.

Minimum order 12 pairs



KLEIN ADJUSTABLE WRENCHES



Drop forged alloy steel for maximum strength and lighter weight. Chrome plated.

Cat. No.	Size	Capacity	Av. Wt. Per Doz.
500-4	4 in.	1/2 in.	2 1/2 lb.
500-6	6 in.	3/4 in.	3 lb.
500-8	8 in.	1 1/8 in.	6 lb.
500-10	10 in.	1 1/8 in.	9 1/2 lb.
500-12	12 in.	1 5/8 in.	18 lb.
500-15	15 in.	1 11/16 in.	45 lb.
500-18	18 in.	2 1/8 in.	62 1/2 lb.
500-24	24 in.	2 7/8 in.	107 lb.

KLEIN ADJUSTABLE WRENCHES



Same design as series 500, but with yellow dipped plastic handles for additional comfort and better grip. Handles hidielectric.

Cat. No.	Size	Capacity	Av. Wt. Per Doz.
D 500-4	4 in.	1/2 in.	2 1/2 lb.
D 500-6	6 in.	3/4 in.	4 lb.
D 500-8	8 in.	1 1/8 in.	7 1/2 lb.
D 500-10	10 in.	1 1/8 in.	11 lb.
D 500-12	12 in.	1 5/8 in.	20 lb.
D 500-15	15 in.	1 11/16 in.	45 lb.
D 500-18	18 in.	2 1/8 in.	62 1/2 lb.
D 500-24	24 in.	2 7/8 in.	107 lb.

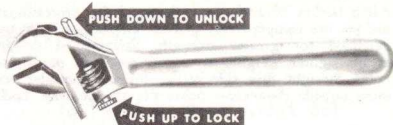
BLACK FINISH ADJUSTABLE WRENCHES



Drop-forged, heat treated, industrial black finish. Maximum strength, light weight.

Cat. No.	Size	Capacity	Av. Wt. Per Doz.
504-6	6 in.	3/4 in.	3 lb.
504-8	8 in.	1 1/8 in.	6 lb.
504-10	10 in.	1 1/8 in.	9 1/2 lb.
504-12	12 in.	1 5/8 in.	18 lb.
504-15	15 in.	1 11/16 in.	45 lb.

ADJUSTABLE LOCKING WRENCHES



The famous Klein Adjustable Wrenches may also be had in a locking pattern which maintains the jaws at a set distance. Furnished from stock. Handles yellow hidielectric plastic covered.

Cat. No.	Size	Capacity	Av. Wt. Per Doz.
D 500-8L	8 in.	1 in.	7 1/2 lb.
D 500-10L	10 in.	1 1/8 in.	11 lb.
*D 500-12L	12 in.	1 1/2 in.	20 lb.

*D 500-12L has extra capacity suitable for line work.

Omit "D" for plain handle.

KLEIN LINEMEN'S WRENCH



Forged from selected bar steel heat treated. Each end has a different size opening. Hole is provided at larger end for turning in standard pole steps. This wrench is particularly suited for use on the heavier three bolt guy clamps on which clearance is limited. Generally suitable for 3/8" hardware.

Openings: Large end—1 3/32" and 2 9/32"
Small end—1 3/16" and 5/8"

Cat. No.	Size	Approx. Wt. Each
3146	13"	2 lb.

KLEIN LINEMEN'S WRENCH



Same as above but modified for 3/4 inch hardware.

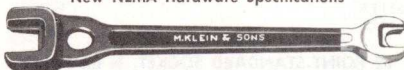
Openings: Large end—1 1/16" and 1 5/16"
Small end—5/8" and 7/8"

Cat. No.	Size	Approx. Wt. Each
3146-A	13" for 3/4" hardware	2 lb.

KLEIN LINEMEN'S WRENCH

Meets All Requirements of EEI Specifications
"Bell System" Type

New NEMA Hardware Specifications



Similar to wrenches shown above, but designed to conform to new NEMA Close Nut tolerance standards.

Openings: Large end—1 1/16" and 1 3/16"
Small end—1 1/16" and 7/8"

Cat. No.	Size	Approx. Wt. Each
3146-B	13"	2 lb.

KLEIN SOCKET WRENCH SETS

Klein Socket Wrenches are designed for professional use yet are competitively priced. The larger sizes are extruded for greater strength. Streamlined design means lighter weight—no excess metal in non-stress areas. Straight thin side walls—tip and shoulder are same outside diameter—socket fits all the way. Lock

holes are drilled, not dented or dimpled. Good, strong hold is assured. Made from alloy steel, hot forged and heat treated in controlled atmosphere furnace which assures harder surface—longer wear. Tools are packed in a hinged, two-tone metal box. Permanent metal divider holds sockets.

10 PIECE $\frac{3}{8}$ INCH DRIVE SET



Four 6-pt. Sockets

$\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$, $\frac{9}{16}$ inches.

Three 12-pt. Sockets

$\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$ inches.

One Extension, 5 inches.

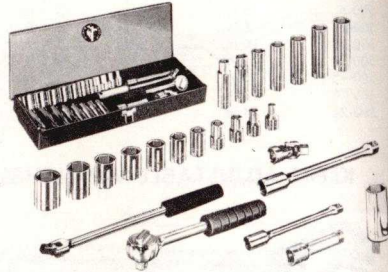
Reversible Ratchet, 7 inches. With Rubber Grip.

Two-tone Metal Box

Cat. No.
65101

Approx. Wt. Set
2 $\frac{1}{8}$ lb.

26 PIECE $\frac{3}{8}$ INCH DRIVE SET



Six 6-pt. Sockets

$\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$, $\frac{9}{16}$ inches.

Five 12-pt. Sockets

$\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, $\frac{13}{16}$, $\frac{7}{8}$ inches.

Seven 6-pt. Deep Sockets

$\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$, $\frac{9}{16}$, $\frac{5}{8}$, $\frac{11}{16}$, $\frac{3}{4}$ inches.

Spark Plug Holding Socket, $\frac{13}{16}$ inches.

Three Extensions

3, 5, 8 inches.

Flex Handle, 10 inches.

Reversible Ratchet, 7 inches. With Rubber Grip.

Universal Joint

Two-tone Metal Box

Cat. No.
65104

Approx. Wt. Set
6 lb.

SOCKETS, REVERSIBLE RATCHETS, FLEX HANDLES, EXTENSIONS

6 POINT STANDARD SOCKET, $\frac{3}{8}$ in. DRIVE

Cat. No.	Size Opening
65108	$\frac{1}{4}$ in.
65109	$\frac{5}{16}$ in.
65110	$\frac{3}{8}$ in.
65111	$\frac{7}{16}$ in.
65112	$\frac{1}{2}$ in.
65113	$\frac{9}{16}$ in.

12 POINT STANDARD SOCKET, $\frac{3}{8}$ in. DRIVE

Cat. No.	Size Opening
65134	$\frac{5}{8}$ in.
65135	$\frac{11}{16}$ in.
65136	$\frac{3}{4}$ in.
65137	$\frac{13}{16}$ in.
65138	$\frac{7}{8}$ in.

6 POINT DEEP SOCKET, $\frac{3}{8}$ in. DRIVE

Cat. No.	Size Opening
65150	$\frac{3}{8}$ in.
65151	$\frac{7}{16}$ in.
65152	$\frac{1}{2}$ in.
65153	$\frac{9}{16}$ in.
65154	$\frac{5}{8}$ in.
65155	$\frac{11}{16}$ in.
65156	$\frac{3}{4}$ in.
65158	$\frac{13}{16}$ in. SPARK PLUG HOLDING SOCKET
65170	7 in. RATCHET REVERSIBLE WITH RUBBER GRIP
65173	3 in. EXTENSION
65174	5 in. EXTENSION
65175	8 in. EXTENSION
65180	10 in. FLEX HANDLE WITH RUBBER GRIP
65185	UNIVERSAL JOINT



SOCKET WRENCH SETS

16 PIECE 1/4 INCH DRIVE SET



Nine 6-pt. Sockets

3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 1/2 inches.

Three 10-pt. Sockets

1/4, 5/16, 3/8 inches.

One Extension, 2 inches.

Reversible Ratchet, 4 3/4 inches.

Spinner

Two-tone Metal Box

Cat. No.
65001

Approx. Wt. Set
1 3/4 lb.

16 PIECE 1/2 INCH DRIVE SET



Twelve 12-pt. Sockets

7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 1 1/16, 7/8, 1 5/16, 1, 1 1/16, 1 1/8 inches.

Spark Plug Holding Socket, 1 3/16 inches.

One Extension, 5 inches.

Reversible Ratchet, 10 1/2 inches. With Rubber Grip.

Two-tone Metal Box

Cat. No.
65201

Approx. Wt. Set
5 1/2 lb.

SOCKETS, REVERSIBLE RATCHETS, FLEX HANDLES, EXTENSIONS

6 POINT STANDARD SOCKET, 1/4 in. DRIVE

Cat. No.	Size Opening
65010	3/16 in.
65011	7/32 in.
65012	1/4 in.
65013	9/32 in.
65014	5/16 in.
65015	11/32 in.
65016	3/8 in.
65017	7/16 in.
65018	1/2 in.

10 POINT STANDARD SOCKET, 1/4 in. DRIVE

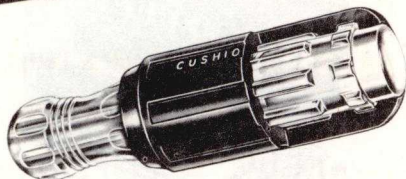
Cat. No.	Size Opening
65031	1/4 in.
65032	5/16 in.
65034	3/8 in.
65060	4 3/4 in. RATCHET REVERSIBLE
65062	2 in. EXTENSION
65063	6 in. EXTENSION
65066	SPINNER

12 POINT STANDARD SOCKET, 1/2 in. DRIVE

Cat. No.	Size Opening
65220	3/8 in.
65221	7/16 in.
65222	1/2 in.
65223	9/16 in.
65224	5/8 in.
65225	11/16 in.
65226	3/4 in.
65227	13/16 in.
65228	7/8 in.
65229	1 1/16 in.
65230	1 in.
65231	1 1/16 in.
65232	1 1/8 in.
65234	1 1/4 in.
65258	1 3/16 in. SPARK PLUG HOLDING SOCKET
65280	10 1/2 in. RATCHET REVERSIBLE WITH RUBBER GRIP
65283	5 in. EXTENSION
65284	10 in. EXTENSION
65290	18 in. FLEX HANDLE WITH RUBBER GRIP
65295	UNIVERSAL JOINT

KLEIN "CUSTOM" CUSHION-GRIP SCREWDRIVERS

Patent No. 2871899



This new line of Klein screwdrivers is designed for electricians and mechanics who want something better than the usual commercial screwdriver. Exceptionally strong, made of alloy tool steel carefully heat-treated. Full chrome-plated finish to prevent rust. The amber plastic handle is shockproof and nonflammable, and is firmly secured to the steel shaft. Every Klein "Custom" Cushion Grip screwdriver is fully guaranteed.

- Hardened alloy tool steel
- Fully chrome-plated finish
- Precision cross-ground point
- Bolstered heavy-duty blade—winged shaft
- Clear amber handle firmly secured to the shaft
- Rubber grip resistant to oil, gas, water
- Hammerproof, shockproof, nonflammable
- 50% greater torque
- Super comfortable cushioning action never hurts the hand

SCREW HOLDING SCREWDRIVER



Designed with a spring clip at tip which holds screw firmly, permitting one-hand operation.

SUPER-HARD PHILLIPS

608-3 #1 point	$\frac{3}{4}$ in. Rd.	3 in.	$\frac{6}{16}$ in.	3 lb.
608-4 #2 point	$\frac{1}{4}$ in. Rd.	4 in.	$\frac{8}{16}$ in.	4 lb.

Cross section shows slotted amber handle and interlocking ribbed sleeve of genuine Nitrile rubber.

HEAVY-DUTY SQUARE SHANK

Cat. No.	Blade	Overall Length	Wt. per Doz.
600-1 stubby	$1\frac{1}{4} \times \frac{1}{4}$ in.	$3\frac{1}{2}$ in.	$1\frac{1}{2}$ lb.
600-4	$4 \times \frac{1}{4}$ in.	$8\frac{1}{2}$ in.	3 lb.
600-6	$6 \times \frac{1}{4}$ in.	11 in.	$3\frac{1}{4}$ lb.
600-8	$8 \times \frac{1}{4}$ in.	$13\frac{1}{2}$ in.	$7\frac{1}{4}$ lb.
600-12	$12 \times \frac{3}{8}$ in.	$17\frac{1}{2}$ in.	10 lb.

HEAVY-DUTY ROUND SHANK

Cat. No.	Blade	Overall Length	Wt. per Doz.
602-3	$3 \times \frac{3}{8}$ in.	$6\frac{1}{2}$ in.	2 lb.
602-4	$4 \times \frac{1}{2}$ in.	$8\frac{1}{2}$ in.	$2\frac{1}{2}$ lb.
602-6	$6 \times \frac{1}{2}$ in.	11 in.	$4\frac{1}{4}$ lb.
602-8	$8 \times \frac{1}{2}$ in.	$13\frac{1}{2}$ in.	$6\frac{1}{2}$ lb.
602-10	$10 \times \frac{3}{4}$ in.	$15\frac{1}{2}$ in.	$7\frac{1}{2}$ lb.
602-12	$12 \times \frac{3}{4}$ in.	$17\frac{1}{2}$ in.	10 lb.

ELECTRICIANS AND TELEPHONE ROUND SHANK

Cat. No.	Blade	Overall Length	Wt. per Doz.
601-3	$3 \times \frac{3}{8}$ in.	$6\frac{1}{2}$ in.	$1\frac{1}{2}$ lb.
601-4	$4 \times \frac{1}{2}$ in.	$7\frac{1}{2}$ in.	$1\frac{1}{4}$ lb.
601-6	$6 \times \frac{1}{2}$ in.	$9\frac{1}{2}$ in.	2 lb.
601-8	$8 \times \frac{1}{2}$ in.	$11\frac{1}{2}$ in.	$2\frac{1}{2}$ lb.
601-10	$10 \times \frac{3}{4}$ in.	$13\frac{1}{2}$ in.	$2\frac{1}{2}$ lb.

SUPER-HARD PHILLIPS

Cat. No.	Blade	Overall Length	Wt. per Doz.
603-1 #2 point stubby	$1\frac{1}{4} \times \frac{1}{4}$ in.	$3\frac{1}{2}$ in.	$1\frac{1}{2}$ lb.
603-3 #1 point	$3 \times \frac{3}{8}$ in.	$6\frac{1}{2}$ in.	$1\frac{1}{4}$ lb.
603-4 #2 point	$4 \times \frac{1}{2}$ in.	$8\frac{1}{2}$ in.	$2\frac{1}{2}$ lb.
603-6 #3 point	$6 \times \frac{1}{2}$ in.	11 in.	4 lb.

PLASTIC HANDLE SCREWDRIVER (WITHOUT CUSHION GRIP)

Cat. No.	Blade	Overall Length	Wt. per Doz.
604-3	$3 \times \frac{3}{8}$ in.	$6\frac{1}{2}$ in.	$1\frac{1}{2}$ lb.

ELECTRICIAN'S CABINET POINT

Cat. No.	Blade	Overall Length	Wt. per Doz.
605-4	$4 \times \frac{1}{4}$ in.	$8\frac{1}{2}$ in.	3 lb.
605-6	$6 \times \frac{1}{4}$ in.	$10\frac{1}{2}$ in.	4 lb.

INSULATED SHANK SCREWDRIVER

Patent No. 2871899



Insulation is an extremely hard plastic, highly resistant to cutting, cracking or chipping. The dipped coating has excellent dielectric properties and is thin enough to permit using the screwdriver in confined places. The tip is exposed beyond the plastic $\frac{1}{4}$ in.

Cat. No.	Blade	Overall Length	Wt. per Doz.
620-3	$3 \times \frac{3}{8}$ in.	$6\frac{1}{2}$ in.	$2\frac{1}{2}$ lb.
620-4	$4 \times \frac{1}{4}$ in.	$7\frac{1}{2}$ in.	$3\frac{1}{4}$ lb.
620-6	$6 \times \frac{3}{8}$ in.	$10\frac{1}{2}$ in.	$5\frac{1}{4}$ lb.
620-8	$8 \times \frac{3}{8}$ in.	13 in.	$7\frac{1}{4}$ lb.

Narrow blade only $\frac{3}{16}$ in. on all lengths.

Cat. No.	Blade	Overall Length	Wt. per Doz.
621-6	$6 \times \frac{3}{8}$ in.	$9\frac{1}{4}$ in.	$2\frac{1}{4}$ lb.
621-8	$8 \times \frac{3}{8}$ in.	$11\frac{1}{4}$ in.	3 lb.
621-10	$10 \times \frac{3}{8}$ in.	$13\frac{1}{4}$ in.	$3\frac{1}{4}$ lb.



KLEIN "SPEEDRIVER"

Saves time—reduces hand fatigue



ONE HAND OPERATION—HANDLE REVOLVES

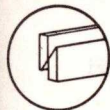
This amazing screwdriver is ideal for use where long threaded screws are used such as when hanging light fixtures, installing switch plates, etc.

The handle revolves, operating like a crank, to turn the screw. Only one hand is needed. Comes in both cabinet point and Phillips Head Styles.

The handle is patented Comfort Grip, clear amber, firmly secured to the shaft. Soft rubber grip is resistant to oil, gas and water.

CABINET POINT			PHILLIPS		
Cat. No.	Size	Approx. Wt. Doz.	Cat. No.	Size	Approx. Wt. Doz.
670-3	$\frac{3}{16}$ x 3 in.	1 $\frac{3}{4}$ lb.	673-3	No. 1 - 3 in.	1 $\frac{3}{4}$ lb.
670-6	$\frac{3}{16}$ x 6 in.	2 lb.	673-6	No. 1 - 6 in.	2 lb.
671-4	$\frac{1}{4}$ x 4 in.	3 lb.	672-4	No. 2 - 4 in.	3 lb.
671-6	$\frac{1}{4}$ x 6 in.	4 lb.	672-6	No. 2 - 6 in.	4 lb.

SCREW-HOLDING SCREWDRIVERS



Holds, starts, drives, sets the screw. Permits one hand operation. Will not mar screw slot. One screwdriver drives many sizes of screws.

Cat. No.	Blade	Overall Length	Av. Wt. Doz.
612-3	$\frac{1}{8}$ in.	5 in.	1 $\frac{3}{4}$ lb.
611-4	$\frac{3}{16}$ in.	8 in.	1 $\frac{7}{8}$ lb.
611-6	$\frac{3}{16}$ in.	10 in.	2 lb.
611-8	$\frac{3}{16}$ in.	12 in.	2 $\frac{3}{4}$ lb.

ROBERTSON SQUARE SCREWDRIVER



Similar to Klein Cushion Grip Screwdriver, but blade is designed to drive Robertson square screws. Tops of handles color-coded for easy identification.

Cat. No.	Size	Colors	Screws Sizes	Av. Wt. Per Doz.
660	#0	Yellow	3 and 4	1 $\frac{3}{4}$ lb.
661	#1	Green	5, 6, 7	1 $\frac{3}{4}$ lb.
662	#2	Red	8, 9, 10	2 $\frac{1}{2}$ lb.
663	#3	Black	12 and 14	2 $\frac{1}{2}$ lb.

SPIRAL RACHET SCREWDRIVERS



Has right and left hand drive as well as rigid setting. Quick return spring keeps blade in the screw slot and automatically returns handle to driving position after each stroke. Supplied with $\frac{7}{32}$ ", $\frac{9}{32}$ " and No. 2 Phillips bits.

Cat. No.	Length Bit Extended	Approx. Wt. Each
64000	20 $\frac{1}{4}$ in.	1.1 lb.

Set of three bits $\frac{7}{32}$ ", $\frac{9}{32}$ " and No. 2 Phillips bits. Approx. Wt. Set 1 lb.

RACHET SCREWDRIVER & DRILL

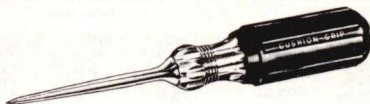


Combination ratchet screwdriver and drill. Compact size, only 8 inches long, permits operation in confined space. Furnished with 2 drill points $\frac{5}{16}$ " and $\frac{7}{16}$ " in. and two bits $\frac{1}{4}$ " and $\frac{5}{16}$ " in.

Drill points and bits are contained in the handle which is clear plastic.

Cat. No.	Length Bit Extended	Approx. Wt. Each
64010	8 in.	$\frac{1}{2}$ lb.

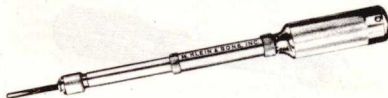
SCRATCH AWL



Hard point for scratching metal, starting screw holes, etc. Cushion-grip handle.

Cat. No.	Length	Av. Wt. Per Doz.
650	7 in.	2 $\frac{1}{2}$ lb.

KLEIN PUSH DRILL

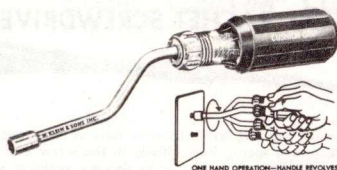


A sturdy, all steel drill. Exposed parts are chrome plated. Comes complete with eight drill points $\frac{1}{16}$ ", $\frac{3}{64}$ ", $\frac{1}{8}$ ", $\frac{3}{32}$ ", $\frac{1}{4}$ ", $\frac{5}{16}$ ", $\frac{3}{8}$ " and $\frac{1}{2}$ " inch. Points are held in a magazine in the handle.

Cat. No.	Length with Drill Point	Approx. Wt. Each
64002	11 $\frac{1}{2}$ in.	$\frac{1}{2}$ lb.

Set of Drill Points $\frac{1}{16}$ ", $\frac{3}{64}$ ", $\frac{1}{8}$ ", $\frac{3}{32}$ ", $\frac{1}{4}$ ", $\frac{5}{16}$ ", $\frac{3}{8}$ " and $\frac{1}{2}$ " inch. Approx. Wt. Set 2 oz.

SPEE-D-NUT DRIVER



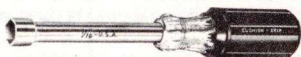
ONE HAND OPERATION—HANDLE REVOLVES

The success of the Klein "Speedriver" led to the development of the Speed-Nut Driver. The rotating shank of this revolutionary tool acts like a crank permitting the handle to revolve. Only one hand is needed. Handle is patented Comfort Grip, clear amber, firmly secured to the shaft—non inflammable. Shaft is hollow to facilitate turning nuts on long screws.

Cat. No.	Hex Size	Approx Wt. Doz.
680-1/4 in.	1/4 in.	2 lb.
680-5/16 in.	5/16 in.	2 lb.
680-3/8 in.	3/8 in.	3 3/4 lb.

CUSHION-GRIP NUT DRIVER

Patent No. 2,871,899



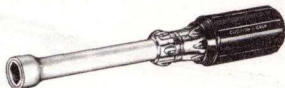
The finest nut driver made. Cushion grip is comfortable, never hurts the hand. Gives tremendous turning power. Shaft hollow to facilitate turning nuts on long screws. Handle is shock-proof, hammer-proof and non-flammable.

Cat. No.	Color	Shank	Hex Size	Wt. Per Doz.
630-3/16	Black	3 1/8 in.	3/16 in.	2 lb.
630-1/4	Red	3 1/8 in.	1/4 in.	2 lb.
630-5/16	Yellow	3 1/8 in.	5/16 in.	2 lb.
630-1/2	Green	3 1/8 in.	1/2 in.	2 lb.
630-3/8	Blue	3 1/4 in.	3/8 in.	3 3/4 lb.
630-7/16	Brown	3 1/2 in.	7/16 in.	4 lb.
630-1/2	Red	3 1/2 in.	1/2 in.	4 lb.

Set of 7 Drivers Listed Above

Cat. No.	Wt. Per Set
631	2 1/2 lb.

INSULATED NUT DRIVER

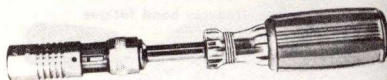


A cushion grip nut driver with insulated shank of hard yellow plastic material. Shaft hollow to facilitate turning nuts on long screws.

Cat. No.	Color	Hex Size	Av. Wt. Per Doz.
640-3/16	Black	3/16 in.	2 3/4 lb.
640-1/4	Red	1/4 in.	2 3/4 lb.
640-5/16	Yellow	5/16 in.	3 lb.
640-3/8	Blue	3/8 in.	4 1/2 lb.
640-7/16	Brown	7/16 in.	4 1/2 lb.
640-1/2	Red	1/2 in.	5 lb.
640-5/8	Orange	5/8 in.	5 1/2 lb.
640-3/4	Yellow	3/4 in.	5 1/2 lb.

DRIVE-A-MATIC NUT DRIVER

Fits 15 different nut and screw sizes



One tool designed to drive and loosen 15 different sizes of hex nuts, hex head screws, and socket head cap screws. Eliminates hunting for the right driver. Comfort grip makes turning easier and protects hands.

Cat. No.	Overall Length	Aver. Wt. Per Doz.
632	7"	4 1/2 lb.

TRIPLE-TAP TOOL

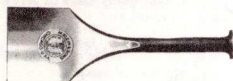
Replaceable Blade



Similar to above but blade is replaceable. Clear plastic handle, color fluted. Supplied with blade.

Cat. No.	Color	Description	Av. Wt. Doz.
625-32	Orange	To tap 6/32, 8/32, 10/32	1 1/2 lb.
625-24	Blue	To tap 6/32, 8/32, 10/32	1 1/2 lb.
Replacement Blades 3 in. 12 to a box.			
626-32		Replacement Blade for 625-32	Doz. 1/2 lb.
626-24		Replacement Blade for 625-24	Doz. 1/2 lb.

ELECTRICIAN'S CHISEL



Alloy steel, baked enamel handle, polished blade. Cutting edge 2 3/4 in.

Cat. No.	Size	Av. Wt. Doz.
66100	1/2 x 8 in.	12 lb.

WOOD CHISEL

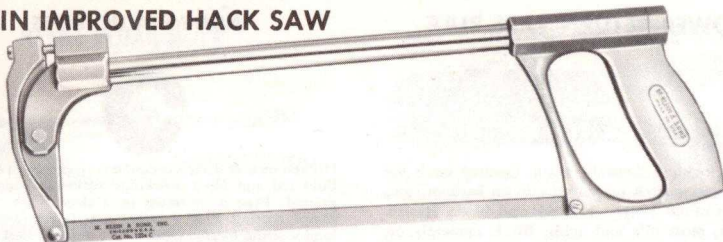


Alloy steel, hexagon stock

Cat. No.	Width Bit	Length	Av. Wt. Doz.
66000	1/2 in.	7 3/4 in.	3 3/4 lb.
66001	3/4 in.	8 in.	6 3/4 lb.
66002	1 in.	8 1/4 in.	9 lb.
66003	1 1/4 in.	8 1/2 in.	12 1/2 lb.



KLEIN IMPROVED HACK SAW



A new, improved design in a hack saw which offers many advantages. It cuts through to a flat surface, cuts flat against a surface sideways and offers the advantage of greater weight which means a faster job with less fatigue. Designed to give a comfortable front end grip for two hand operation. Frame is of die cast zinc—no plastic used in the construction. Blue oxidized finish.

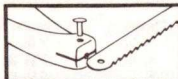
The new set screw design permits maximum tightening of the blade which means more efficient operation and longer blade life.

Storage chamber provided for six extra blades.

Cat. No.	Length	Length of Blade	Wt. Per Dozen
701-10	14 in.	10 in.	22 lb.
701-12	16 in.	12 in.	23 lb.

Same design as above but retaining pin is threaded, which prevents losing pin if blade is broken. Blade can only be used in vertical position.

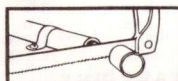
701-12 -TH	16 in.	12 in.	23 lb.
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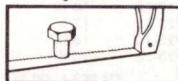
Blade held in accurately machined slots, insuring perfect alignment full length of blade.



Retaining pins hold blade for sideways cutting. Flat head of pins permits cutting flush against surface.

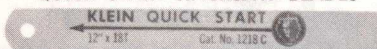


Cuts through to flat surface because there are no projecting wing nuts or protruding handle.



Cuts flat against surface sideways. Makes it easy to cut flush to wall or floor.

QUICK START HACKSAW BLADES



- NO FALSE STARTS
- NO BUCKING
- NO BOUNCING

Special starter teeth at the front end make starting a cut on angle iron, conduit or tubing far easier than ever before. Starter teeth lead conventional teeth right into the work. Makes possible hand held cutting on more types of jobs. Made in carbon steel or high speed steel—10 or 12 teeth.

Carbon Steel Hack Saw Blades (Grey)		Packed per Box	Wt. Per Box
1018C	10 in.	18T	100
1024C	10 in.	24T	100
1032C	10 in.	32T	100
1218C	12 in.	18T	100
1224C	12 in.	24T	100
1232C	12 in.	32T	100

High-Speed Steel Hack Saw Blades (Yellow)		Packed per Box	Wt. Per Box
1018HS	10 in.	18T	100
1024HS	10 in.	24T	100
1032HS	10 in.	32T	100
1218HS	12 in.	18T	100
1224HS	12 in.	24T	100
1232HS	12 in.	32T	100

KLEIN COMPASS SAW

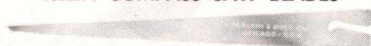


Improved design with oversized handle permits two-hand operation. Klein Magic Slot Blade may be changed in seconds—it is not necessary to remove thumb screw to reverse or change blades. Magic Slot design assures firm locking action while permitting fast blade change. Handle is die cast zinc, blue oxidized finish.

Supplied without blades.

Cat. No.	Length Handle	Grip	Wt. Per Doz.
702	5 in.	4 1/2 in.	14 1/4 lb.

KLEIN COMPASS SAW BLADES



Highest quality carbon steel blades designed with Magic Slot for use with Klein Compass Saw.

Cat. No.	Length	Teeth	Packed per Box	Wt. Per Doz.
704	12 in.	8T	12	3 lb.
705	12 in.	10T	12	3 lb.
706	8 in.	10T	12	2 1/4 lb.
707	10 in.	10T	12	2 1/4 lb.

Metal Cutting Blade with Wavy Edge

Cat. No.	Length	Teeth	Packed Per Box	Wt. Per Doz.
708	8 in.	24T	12	1 3/4 lb.
709	4 in.	10T	12	3/4 lb.

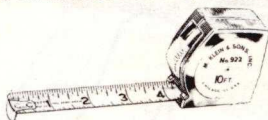
MINI HACK SAW



Handy little saw, compact, sturdy. Uses regular hack saw blades even broken ones. Comfortable grip. Will fit into tight spaces. Cuts flush. Furnished with one 10 in. blade.

Cat. No.	Length without blade	Wt. Per Doz.
713	8 in.	11 lb.

POWER RETURN TAPE RULE



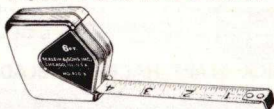
Positive locking. Smooth return. Control knob for easy operation. Belt or pocket clip on back of case. Mylar (DuPont Polyester Film) clad blade. Resists abrasion, most oils and acids. Black numerals on yellow blade for maximum visibility. Blade replaceable.

Cat. No.	Length	Width	Av. Wt. Per Doz.
922-10	10 ft.	$\frac{3}{4}$ in.	7 lb.
922-12	12 ft.	$\frac{3}{4}$ in.	7 $\frac{1}{2}$ lb.
922-16	16 ft.	$\frac{3}{4}$ in.	8 $\frac{1}{2}$ lb.
922-20	20 ft.	$\frac{3}{4}$ in.	9 $\frac{1}{2}$ lb.

Replacement Blades for above

Cat. No.	Length	Width	Av. Wt. Per Doz.
923-10	10 ft.	$\frac{3}{4}$ in.	3 lb.
923-12	12 ft.	$\frac{3}{4}$ in.	3 lb.
923-16	16 ft.	$\frac{3}{4}$ in.	3 $\frac{1}{2}$ lb.
923-20	20 ft.	$\frac{3}{4}$ in.	4 $\frac{1}{2}$ lb.

PUSH-PULL TAPE RULE



Mylar (DuPont Polyester Film) blade takes at least three times more abrasive wear. Double scale marking after first foot. Hook compensates for inside or outside measuring.

Cat. No.	Length	Width	Av. Wt. Per Doz.
920-6	6 ft.	$\frac{1}{2}$ in.	4 $\frac{1}{2}$ lb.
920-8	8 ft.	$\frac{1}{2}$ in.	5 lb.

Replacement Blades for above

Cat. No.	Length	Width	Av. Wt. Per Doz.
921-6	6 ft.	$\frac{1}{2}$ in.	2 lb.
921-8	8 ft.	$\frac{1}{2}$ in.	2 lb.

CASED STEEL TAPES



Tape of Mylar (DuPont Polyester Film), accurate red and black numerals which contrast against the yellow background. Resists oil, alkali, acids and rust. Case chrome plated, die cast, contoured to fit the hand. Will not rust.

Cat. No.	Length	Width	Approx. Wt. Each
940-50	50 ft.	$\frac{3}{8}$ in.	1 lb.
940-100	100 ft.	$\frac{3}{8}$ in.	1 $\frac{3}{4}$ lb.
941-50	50 Ft. Replacement Tape		
941-100	100 Ft. Replacement Tape		

NON-METALLIC TAPES



Highest quality woven dacron tape, rugged and durable. Bold red and black markings against a white background. Tape is protected by a clear, water resistant plastic coating. First 9 inches heavily reinforced with long-wearing plastic. Case of rust resistant steel covered with double strength vinyl.

Cat. No.	Length	Width	Approx. Wt. Ea.
942-50	50 ft.	$\frac{5}{8}$ in.	1 lb.
942-100	100 ft.	$\frac{5}{8}$ in.	1 $\frac{3}{4}$ lb.
943-50	Replacement Tape		
943-100	Replacement Tape		

150 FT. NON-METALLIC TAPES



Similar to 942-100 but tape is 150 ft. long and mounted on a perforated aluminum disc reel with standard ring and adjustable strap handle.

Cat. No.	Length	Width	Approx. Wt. Ea.
942-150	150 ft.	$\frac{5}{8}$ in.	3 lb.
943-150	Replacement Tape		

HEAVY-DUTY EXTENSION RULE



Black numbers on yellow background offers maximum visibility and long wear. King-size, non-stretching joints permanently lubricated. Sticks graduated on edges in inches and 16ths. Brass slide for extended 6-inch measuring. Tips and protector strike plates a brass plated. Rule outside read.

Cat. No.	Finish	Length	Av. Wt. Per Doz.
905-6	Yellow	6 ft.	4 $\frac{3}{4}$ lb.

KLEIN WOOD RULES

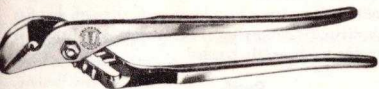


Special yellow finish lasts at least ten times longer. Resists abrasion. Non-stretching, lubricated brass plated steel joints. Sticks graduated on all edges in inches and sixteenths. Available in standard read and inside read.

Cat. No.	Length	Av. Wt. Per Doz.
901-6 standard read	6 ft.	4 $\frac{1}{2}$ lb.
900-6 inside read	6 ft.	4 $\frac{1}{2}$ lb.



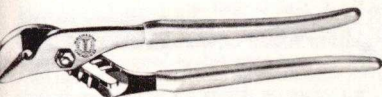
KLEIN PUMP PLIER



Jaws are positioned and locked into place by engaging tongue in proper groove. Jaws cannot slip even under heavy pressure. In 10 in. size six channels give wide range of jaw openings.

Cat. No.	Length	Max. Cap.	Av. Wt. Per Doz.
502-6	6 1/2 in.	1 in.	4 lb.
502-10	10 in.	1 3/4 in.	9 1/2 lb.
502-12	12 in.	2 1/8 in.	17 3/8 lb.

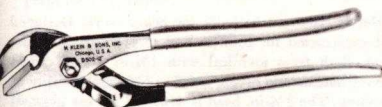
INSULATED HANDLE PUMP PLIER



Insulated handle pump pliers have yellow plastic dipped handles. The symbol HD below the number signifies anti-dielectric coating on handles.

Cat. No.	Length	Max. Cap.	Av. Wt. Per Doz.
502-6	6 1/2 in.	1 in.	4 1/2 lb.
502-10	10 in.	1 3/4 in.	10 lb.
502-12	12 in.	2 1/8 in.	17 3/8 lb.
502-16	16 in.	4 1/4 in.	29 3/4 lb.
D502-10	10 in.	1 3/4 in.	10 lb.
D502-12	12 in.	2 1/8 in.	17 3/8 lb.

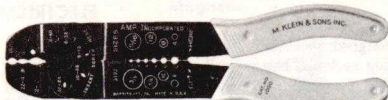
SMOOTH JAW PUMP PLIER



Same style as the Insulated Pump Plier shown above but jaws are smooth.

Cat. No.	Length	Max. Cap.	Av. Wt. Per Doz.
D502-10 SJ	10 in.	1 3/4 in.	10 lb.
D502-12 SJ	12 in.	2 1/8 in.	17 3/8 lb.

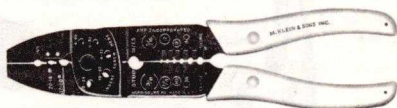
ALL PURPOSE 6-IN-ONE TOOL



Shears bolts clean, cuts wire, strips wire, measures stud sizes, gauges wire sizes, crimps terminals. Handles red plastic covered.

Cat. No.	Length	Av. Wt. Per Doz.
1000	7 1/2 in.	5 lb.

SUPER ALL-PURPOSE TOOL



A general all-purpose tool for crimping insulated terminals and splices, cutting wire, stripping wire, cutting bolts, crimping 7 mm ignition and distributor terminals. Wire cutter in nose. Man-sized, red plastic handles contoured for comfort.

Cat. No.	Length	Aver. Wt. Per Doz.
1002	8 1/2 in.	7 lb.

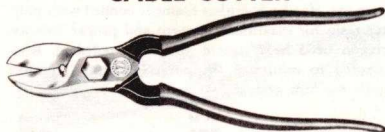
KLEIN WIRE STRIPPER



A compact, light handy tool only 5 inches long—ideal for stripping insulation from wire. Convenient hole for looping or bending wire. Handles yellow plastic dipped. Strong spring holds jaws open for maximum convenience. Also available without spring.

Cat. No.	Length	Approx. Wt. Each
1004 With spring	5 in.	3/16 lb.
1003 Without spring	5 in.	3/16 lb.

CABLE CUTTER



This recent addition to the Klein Line is designed to cut Cable easily and quickly because of its high leverage. Come with stripping notches. Red dipped plastic handles.

Cat. No.	Length	Length of cut	Approx. Wt. Doz.
1104	7 in.	1 1/8 in.	6 lb.
1104NB	Replacement nut and bolt		

KLEIN HAMMERS

ELECTRICIANS' HAMMER

Designed specifically for electricians' use. The extra long neck and narrow striking face make this hammer ideal for reaching into such confined space as outlet boxes. Head is straight claw pattern of drop forged

steel, highly polished.

Handle is fiberglass which gives great strength and has high dielectric properties. The comfort grip handle is neoprene permanently bonded.

Cat. No.
807-18

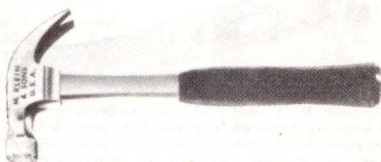
Wt. of
Head
18 oz.

Overall
Length
14 in.



STRAIGHT CLAW HAMMER

CURVED CLAW RIPPING HAMMER



Maximum leverage when pulling nails. "Klein-Tite" design handle prevents head from loosening in most severe use. Handle fiberglass filament bonded with polyester resin for maximum strength and proper balance. Octagon head heat treated and fully polished. Rim-tempered to minimize chipping. Perforated comfort handle for firm grip.

Cat. No.	Wt. of Head
818-16	16 oz.
818-20	20 oz.

Overall Length
13 in.
13 in.

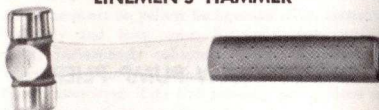
Designed for heavy duty. Drop-forged steel, straight claw, "Klein-Tite" fiberglass handle prevents head from loosening even in most severe use. Handle has excellent dielectric characteristics.

Cat. No.
808-16
808-20

Wt. of
Head
16 oz.
20 oz.

Overall
Length
13 in.
13 in.

LINEMEN'S HAMMER



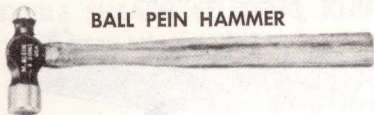
Perfectly balanced hammer for heavy work. Designed and constructed for comfort and to prevent tiring the hand. Both faces identical with 1 3/4-in. round crown driving surface and ample bevel to reduce possibility of chipping. The 3 3/4-in. head is designed for use in small or confined space. Available with fiberglass or hickory handle. Neoprene cushion grip.

Cat. No.	Wt. of Head
809-36 Fiberglass Handle	36 oz.
804-36 Hickory Handle	36 oz.
814 Replacement Handle for 804-36	

Overall Length
14 1/2 in.
15 1/2 in.



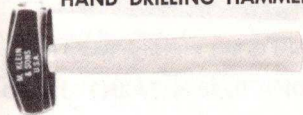
BALL PEIN HAMMER



Forged from high grade steel, rim-tempered crowned face minimizes chipping. Handle straight grain hickory stained and lacquered.

Cat. No.	Wt. of Head	Overall Length
803-8	8 oz.	13 in.
803-12	12 oz.	13 1/2 in.
803-16	16 oz.	14 1/2 in.
803-24	24 oz.	16 in.
803-32	32 oz.	16 in.

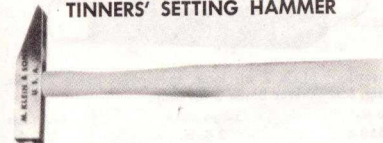
HAND DRILLING HAMMER



Extra heavy hammer with head of steel, drop-forged. Short length designed for use in confined space where extra weight is required. Select hickory handle, triple wedged and lacquered. Special process removes moisture from handle and replaces with oil to eliminate effects of extreme temperatures and provide permanent tightness.

Cat. No.	Wt. of Head	Overall Length
823-48	48 oz.	10 3/4 in.
848 Replacement Handle for 823-48		

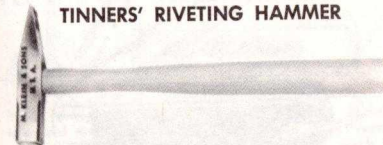
TINNERS' SETTING HAMMER



Drop-forged polished face and painted steel head, rim tempered face minimizes chipping. Selected straight grain hickory handle.

Cat. No.	Wt. of Head	Overall Length
824-12	12 oz.	13 in.

TINNERS' RIVETING HAMMER

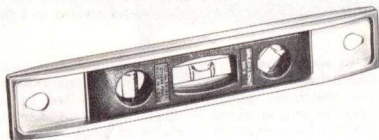


Drop-forged painted steel head with polished face. Rim tempered face minimizes chipping. Selected straight grain hickory handle.

Cat. No.	Wt. of Head	Overall Length
825-12	12 oz.	13 in.

ALUMINUM TORPEDO LEVEL

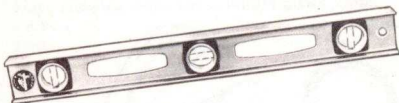
Magnetic



Handy pocket level. Three vials—plumb, level and 45° mitre. Magnets in base assure greater convenience when hanging fixtures, etc.

Cat. No.	Vial	Length	Size	Av. Wt. Per Doz.
930-9	3	9 in.	1 1/4 in. x 3/4 in.	4 lb.

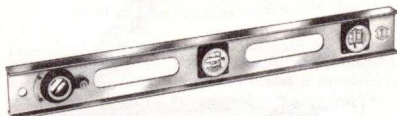
MAGNESIUM LEVEL



A high quality level of light weight magnesium. One piece extruded I-beam construction. Three solid set vials protected with glass windows.

Cat. No.	Length	Approx. Wt. Each
933-24	24 in.	1 1/4 lb.
933-28	28 in.	1 1/2 lb.
933-48	48 in.	2 1/2 lb.

MAGNESIUM LEVEL WITH PROTRACTOR



I-beam construction, very light weight. Twenty-four inches long. The three glass protected vials are complete units. Protractor dial measures any angle from 0° to 90°.

Cat. No.	Length	Approx. Wt. Each
932-24	24 in.	1.3 lb.

"XELA" LINEMAN'S AND ELECTRICIAN'S KNIVES

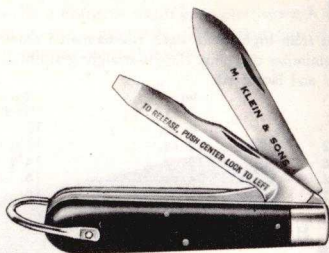
Sturdily constructed of high-grade steel carefully tempered. Handles are of special plastic that won't crack or chip. Fitted with wrought shackles riveted to han-

dle. Screwdriver blades lock when opened automatically preventing the blade folding when in use.



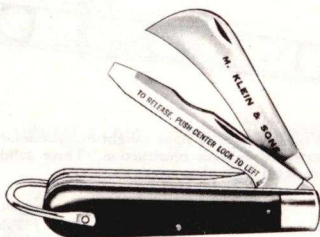
Single blade locks when open. Length of blade 3 in.

Cat. No.	Length closed	Av. Wt. Doz.
1550-4	4 in.	4 lb.



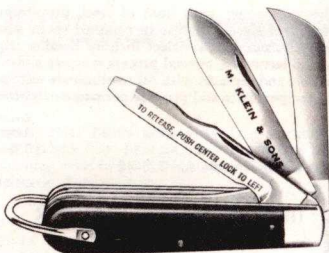
Single blade 2½ in. long, screwdriver blade 3 in. long.

Cat. No.	Length closed	Av. Wt. Doz.
1550-2	3¾ in.	3 lb.



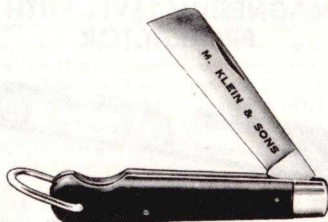
Curved blade and screwdriver blade each 3 in.

Cat. No.	Length closed	Av. Wt. Doz.
1550-7	3¾ in.	3 lb.



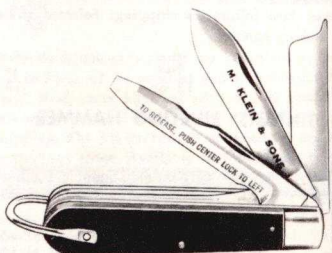
Sheepfoot blade 2 in. long, spearpoint blade 2½ in. long, screwdriver blade 3 in. long.

Cat. No.	Length closed	Av. Wt. Doz.
1550-6	3¾ in.	3½ lb.



Skinning knife. Single blade 3 in. long.

Cat. No.	Length closed	Av. Wt. Doz.
1550-5	3¾ in.	1 lb.



Cable insulation slitting knife has special blade 2½ in. long designed to slit tough insulation. Regular blade 2½ in. long, screwdriver blade 3 in. long.

Cat. No.	Length closed	Av. Wt. Doz.
1550-9	3¾ in.	3½ lb.



CABLE SHEATH SPLITTING KNIFE



A compact knife for splitting lead cables. Has hammer head on back of blade. Blade of finest cutting steel shaped to a keen edge. Handle of leather with hole for convenience.

Cat. No.	Length	Blade	Approx. Wt. Doz.
1515-S	7 3/8 in.	2 1/32	4 1/2 lb.



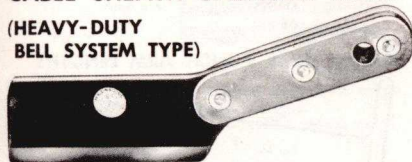
Leather guard for above.

Cat. No.
5574-S

Approx. Wt. Doz.
4 lb.

CABLE SHEATH SPLITTING KNIFE

(HEAVY-DUTY
BELL SYSTEM TYPE)



A heavy-duty knife for splitting cable sheaths. Blade is finest cutlery steel shaped to a keen edge. Strong leather handle is securely riveted. Tempered blue finish.

Cat. No.	Length Overall	Blade	Average Weight Per Doz.
1515-1	8 3/4"	4 1/2"	13 lb.

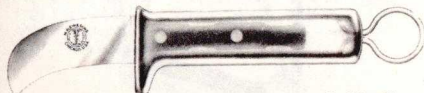


Leather guard for above.

Cat. No.
5574-L

Approx. Wt. Each
4 lb.

PLASTIC HANDLE SKINNING KNIFE

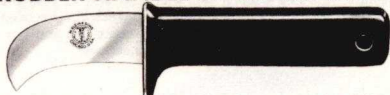


Made of high-grade steel carefully tempered. Handle is of red molded on flame-resistant plastic, providing excellent insulation and comfortable grip. Back of blade is ground flat for scraping. Handy ring for fastening to snap is imbedded in plastic handle. Molded finger guard prevents accidents.

Cat. No.	Length Less Ring	Blade	Average Weight Per Doz.
1570-3	8"	3"	4 1/4 lb.

1570-3LR as above less ring in handle.

RUBBER HANDLE SKINNING KNIFE



An ideal skinning knife for linemen. Made of high quality steel carefully tempered. The molded handle is of half-hard rubber providing insulation and a comfortable grip. Back of blade is ground flat for scraping. Hole in handle is through solid rubber.

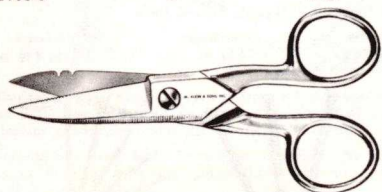
Cat. No.	Length Overall	Blade	Average Weight Per Doz.
1560-3	8"	3"	4 1/4 lb.

"XELA" ELECTRICIANS' SCISSORS



A scissor specially designed for the electrician and mechanic. Will stand continued hard service. Made of high-grade steel carefully tempered. Has screw hinge allowing adjustment. Nickel plated finish.

Cat. No.	Size	Average Weight Per Doz.
2100-5	5"	2 lb.



Similar to 2100-5 but with the lower blade serrated to prevent slippage of wire when cutting. Upper blade has a notch for stripping 19 and 23 gauge wire.

Cat. No.	Size	Av. Wt Per Doz.
2100-7	5 in.	2 lb.

UTILITY KNIFE



Lightweight aluminum handle designed for comfort. Razor blade steel knife is replaceable and retractable to 3 positions. Storage for extra blades is provided in the handle. Supplied with three heavy duty blades.

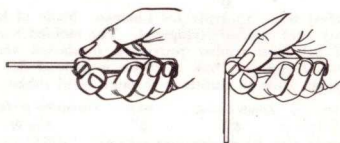
Cat. No.	Length	Approx. Wt. Each
44100	6 in.	4 oz.

Razor type replaceable blade, heavy duty. (Interchangeable with most other makes of utility knives.)

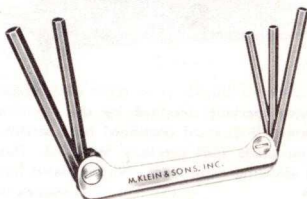
Cat. No.	Package of 5 Blades	Size
44101		27/16 x .025

KLEIN HEX KEYS

Handy, hex key wrench sets that fold and fit into the pocket. Made of chrome nickel alloy steel, precision heat treated. End of wrenches are square cut and beveled to slip easily and securely into screws.

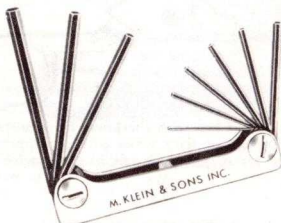


USE STRAIGHT OUT OR AT RIGHT ANGLES
FOR EXTRA LEVERAGE



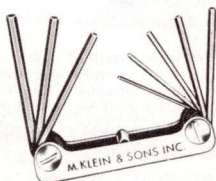
5 Keys: $\frac{3}{16}$, $\frac{7}{32}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$ inch.

Cat. No.	Handle Length	Key Length
68702	5 $\frac{1}{4}$ in.	3 $\frac{1}{8}$ to 4 $\frac{1}{2}$ in.



9 Keys: $\frac{5}{64}$, $\frac{3}{32}$, $\frac{7}{64}$, $\frac{1}{8}$, $\frac{9}{64}$, $\frac{5}{32}$, $\frac{3}{16}$, $\frac{7}{32}$, $\frac{1}{4}$ inch.

Cat. No.	Handle Length	Key Length
68701	4 $\frac{1}{4}$ in.	1 $\frac{1}{16}$ to 3 $\frac{1}{2}$ in.



8 Keys: .050, $\frac{1}{16}$, $\frac{5}{64}$, $\frac{3}{32}$, $\frac{7}{64}$, $\frac{1}{8}$, $\frac{9}{64}$, $\frac{5}{32}$ inch.

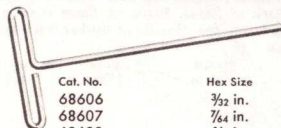
Cat. No.	Handle Length	Key Length
68700	3 in.	1 $\frac{1}{16}$ to 2 $\frac{3}{8}$ in.

PAGE 28T

T HANDLE HEX KEYS

Made of high quality chrome nickel alloy steel, heat treated. Precision drawn to close tolerances to assure accurate fit into screw head. The T handle is easy to grasp and provides maximum torque for greater leverage. Available in two arm lengths, 6 in. and 9 in.

HEX KEYS 6 INCH ARM LENGTHS

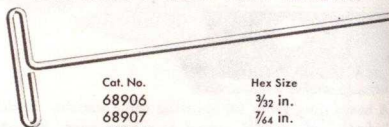


Cat. No.	Hex Size
68606	$\frac{3}{32}$ in.
68607	$\frac{7}{64}$ in.
68608	$\frac{1}{8}$ in.
68609	$\frac{9}{64}$ in.
68610	$\frac{5}{32}$ in.
68612	$\frac{3}{16}$ in.
68614	$\frac{7}{32}$ in.
68616	$\frac{1}{4}$ in.
68620	$\frac{5}{16}$ in.
68624	$\frac{3}{8}$ in.

Complete set of all 10 Wrenches with 6 inch arm length.

Cat. No.	Arm Length
68600	6 in.

HEX KEYS 9 INCH ARM LENGTHS



Cat. No.	Hex Size
68906	$\frac{3}{32}$ in.
68907	$\frac{7}{64}$ in.
68908	$\frac{1}{8}$ in.
68909	$\frac{9}{64}$ in.
68910	$\frac{5}{32}$ in.
68912	$\frac{3}{16}$ in.
68914	$\frac{7}{32}$ in.
68916	$\frac{1}{4}$ in.
68920	$\frac{5}{16}$ in.
68924	$\frac{3}{8}$ in.

Complete set of all 10 wrenches with 9 inch arm length.

Cat. No.	Arm Length
68900	9 in.

FOLDING SCREWDRIVER



A handy pocket size combination tool in one folding unit. All blades are of high quality alloy steel heat treated. Contains 3 screwdriver blades, $\frac{1}{8}$, $\frac{3}{16}$ and $\frac{1}{4}$ inch, #2 Phillips Head blade and $\frac{3}{16}$ Hole Punch Awl.

Cat. No.	Handle Length	Blade Length
68705	3 $\frac{3}{8}$ in.	2 $\frac{3}{8}$ to 3 in.



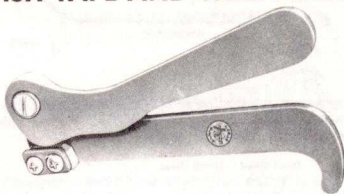
PIPE AND DUCT SNIP



Double levers transmit exceptional power with half the effort. Extra sharp piercing tip makes starting cut easy. Offset handle provides hand protection. Cuts any shape duct, seams or sheet metal stock quickly and easily.

Cat. No.	Length	Length of Cut	Approx. Wt. Doz.
1105	9 1/4 in.	7/16 in.	12 lb.

FISH TAPE AND WIRE PULLER



The most satisfactory puller of wire or fish tape made. Ample, easy grip handles provide for maximum pulling power. Jaws grip fish tape firmly but will not damage fish tape or wire.

Cat. No.	Length	Approx. Wt. Each
50365	7 in.	6.5 oz.

KLEIN DROP-FORGED SNIP



Smooth blade action, cuts all sheet metal. Easy operation and proper balance prevents fatigue.

Cat. No.	Length	Length of Cut	Approx. Wt. Doz.
1106	12 in.	3 1/4 in.	24 lb.

KLEIN SLITTING TOOL

For Control Cable

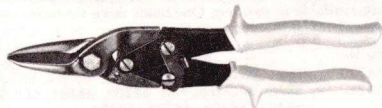


Designed to slit tough insulation from a few inches to as many feet as desired, swiftly and simply. Will not damage conductors inside the weatherproof sheath.

Handle cast zinc, light in weight, shaped to fit the hand. Knife of tempered tool steel may be sharpened and is easily replaced.

Cat. No.	Size	Av. Wt Per Doz.
1558	4 1/2 in. x 2 1/2 in.	3 lb.
058-K	Replacement knife and roll pin.	

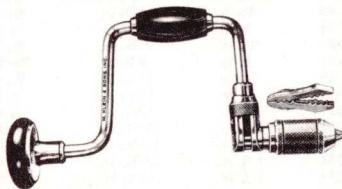
METAL-CUTTING AVIATION SNIPS



Compound action assures maximum cutting ease. Jaws are hot drop-forged molybdenum steel. Handles are formed of electric furnace steel. Safety latch keeps jaws closed when not in use. Plastic handles provide maximum comfort. Available in left, right, or straight styles. Color coded handles.

Cat. No.	Style	Color	Length of Cut	Full Length	Wt. Each
1100 L	Cuts to Left	Red	1 1/2 in.	9 3/4 in.	1 lb.
1101 R	Cuts to Right	Green	1 1/2 in.	9 3/4 in.	1 lb.
1102 S	Cuts Straight	Yellow	1 1/2 in.	9 3/4 in.	1 lb.
P406	Replacement Spring 1100L & 1102S				
P407	Replacement Spring 1101R				

KLEIN BIT BRACE



Steel nickel plated. Ball bearing head steel clad with spring loaded alligator jaws. Holds square taper shank bits, small and medium size drills.

Cat. No.	Sweep	Approx. Wt. Each
64004	10 in.	2.9 lb.
64005	12 in.	3.5 lb.

OPEN END WRENCHES



Forged from finest alloy steel. Accurately machined and broached to assure rugged, long life. Nickle chrome plated. Double head 15° angle.

Cat. No.	Small Head Opening	Large Head Opening	Length	Approx. Wt. Each
68100	1/4 in.	5/16 in.	3 13/16 in.	1/32 lb.
68101	3/8 in.	7/16 in.	4 11/16 in.	1/16 lb.
68102	1/2 in.	9/16 in.	6 1/4 in.	1/8 lb.
68103	5/8 in.	1 1/16 in.	7 1/2 in.	1/4 lb.
68104	3/4 in.	1 3/16 in.	9 3/4 in.	9/16 lb.
68105	7/8 in.	1 5/16 in.	10 1/2 in.	3/4 lb.
68106	1 in.	1 7/8 in.	12 1/4 in.	1 lb.
68107	1 1/4 in.	1 5/8 in.	14 3/8 in.	1 1/2 lb.

OPEN END WRENCH SETS

Packed in convenient plastic roll.

Cat. No.	
68120	Five Piece 68101 through 68105
68122	Seven Piece 68100 through 68106

COMBINATION WRENCHES



A high quality wrench that combines an open end and a box wrench in one tool. Made of finest quality alloy steel. Rugged for tough service. Nickle chrome plated. Box end 12 point with 15° angle. offset. Open end 15° angle.

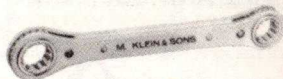
Cat. No.	Opening	Length	Approx. Wt. Each
68040	5/16 in.	4 7/32 in.	3/64 lb.
68041	11/32 in.	4 11/16 in.	3/64 lb.
68042	3/8 in.	4 11/16 in.	3/32 lb.
68043	7/16 in.	5 3/16 in.	1/8 lb.
68044	1/2 in.	5 11/16 in.	5/32 lb.
68045	9/16 in.	6 7/32 in.	3/16 lb.
68046	5/8 in.	6 27/32 in.	1/4 lb.
68047	11/16 in.	7 15/32 in.	9/32 lb.
68048	3/4 in.	8 1/8 in.	1 5/32 lb.
68049	13/16 in.	11 5/32 in.	9/16 lb.
68050	7/8 in.	12 3/16 in.	3/4 lb.
68051	1 5/16 in.	13 1/16 in.	7/8 lb.
68052	1 in.	13 15/16 in.	1 1/4 lb.
68053	1 1/16 in.	14 27/32 in.	1 1/2 lb.
68054	1 1/8 in.	15 23/32 in.	1 3/4 lb.
68055	1 1/4 in.	16 1/2 in.	2 lb.

COMBINATION WRENCH SETS

Packed in convenient plastic roll.

Cat. No.	
68060	Seven Piece 68042 through 68048
68062	Eleven Piece 68042 through 68052

RATCHETING BOX WRENCHES



Designed for use in confined space and on long studs. Laminated construction gives greater strength. Chrome plated finish. Come in both single and double hex.

SINGLE HEX

Cat. No.	Opening	Length	Approx. Wt. Each
68200	1/4 x 9/16 in.	4 1/4 in.	3/4 lb.
68201	3/8 x 7/16 in.	5 1/2 in.	1 1/8 lb.

DOUBLE HEX

Cat. No.	Opening	Length	Approx. Wt. Each
68202	1/2 x 9/16 in.	6 1/2 in.	2 1/2 lb.
68203	5/8 x 1 1/16 in.	8 in.	4 lb.
68204	3/4 x 3/4 in.	8 in.	4 lb.
68205	1 1/16 x 3/4 in.	9 1/4 in.	5 1/2 lb.
68206	1 3/16 x 7/8 in.	9 1/4 in.	5 1/2 lb.

RATCHETING BOX WRENCH SETS



Sets of the above wrenches in convenient plastic roll are available in two sets. One holds three wrenches and the other holds seven wrenches.

Cat. No.	Wrenches
68220	Three Wrenches Nos. 68201, 68202, 68203
68222	Seven Wrenches Nos. 68200, 68201, 68202, 68203, 68204, 68205, 68206



AIR CONDITIONING AND REFRIGERATION WRENCHES

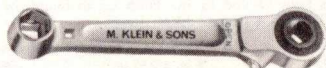
REFRIGERATION RATCHET BOX WRENCHES



Designed for air conditioning, refrigeration servicemen and others faced with the necessity of working in a limited area. Ratchet action is smooth and requires minimum handle movement. Outside chrome plated to assure long life.

Cat. No.	Ratchet Opening 4 Pt.	Handle Openings 4 Pt.	Length 6 Pt.	Approx. Wt. Each
68215	1/4 in.	3/16 in.-1/4 in.	1/2 in.	6 in. 1/4 lb.

NON-REVERSIBLE RATCHET WRENCHES



Ratcheting box wrenches designed to shut off valves, packing glands, for work on compressors, pumps, etc. especially in the air conditioning and refrigeration fields. Openings are accurately broached for perfect non-slip fit. Outside plates are chrome plated.

Cat. No.	Ratchet Opening 4 Pt.	Handle Openings 4 Pt.	Length 6 Pt.	Approx. Wt. Each
68216	1/4 in.	3/16 in.-1/4 in.	1/2 in.	6 in. 1/2 lb.
68217	3/16 in.	3/16 in.-3/16 in.	1/2 in.	6 in. 1/2 lb.
68218	3/8 in.	3/16 in.-1/4 in.	1/2 in.	6 in. 1/2 lb.

REFRIGERATION RATCHET BOX WRENCHES



Reversing ratchet on one end and single hex, solid box construction on the other. Efficient, smooth working ratchet provides speed with minimum handle movement.

Cat. No.	Reversible Ratchet Square	Solid Box Single Hex.	Length	Approx. Wt. Each
68210	1/4 in.	3/16 in.	5 in.	3/8 lb.
68211	1/4 in.-3/16 in.	1/2 in.-3/16 in.	5 in.	3/8 lb.

Special combination wrench same as 68211 but with reversible ratchet on both ends.

68212	1/4 in.-3/16 in.	1/2 in.-3/16 in.	7 in.	3/8 lb.
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FLARE NUT WRENCHES



Designed for tube fitting applications such as vacuum, hydraulic refrigeration and fuel lines used on automotive, truck, road machinery and industrial equipment. Constructed of the finest alloy steel with cam-fared openings and high clearance heads for maximum ease of use. The wrench ends are designed with extra thick ends to avoid damage to soft metal fittings. Chrome plated for long service life.

12 Point—30° Openings

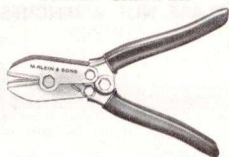
Cat. No.	Opening	Length	Approx. Wt. Each
68000	3/8 — 7/16 in.	5 11/16 in.	1/8 lb.
68001	1/2 — 9/16 in.	6 1/2 in.	1/8 lb.
68002	5/8 — 11/16 in.	7 1/16 in.	1/4 lb.
68003	3/4 — 7/8 in.	8 in.	1/2 lb.

12 Point—7 1/2° Openings

Cat. No.	Opening	Length	Approx. Wt. Each
68004	3/4 in. — 1 in.	8 in.	1/2 lb.
68005	3/8 in. — 15/16 in.	9 1/2 in.	7/8 lb.
68006	7/8 in. — 1 in.	9 1/2 in.	7/8 lb.
68007	7/8 in. — 1 1/8 in.	9 1/2 in.	3/4 lb.
68008	1 3/16 in. — 1 1/16 in.	8 3/4 in.	1 lb.
68009	1 5/16 in. — 1 1/16 in.	10 1/4 in.	1 1/8 lb.

SHEET METAL WORKERS TOOLS

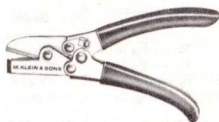
HAND CRIMPER



A perfect crimping tool for round, square and corrugated pipe. Compound leverage with spring action. Full 20 ga. capacity. Non-slip plastic grip. Has compound action and spring return action.

Cat. No.	Length	Approx. Wt. Each
63100	9 in.	1 lb.

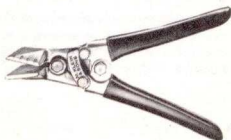
SINGLE CRIMPER



An economical hand crimper with compound leverage. Cuts both round and square pipe and downspouts. Non-slip plastic grip.

Cat. No.	Length	Approx. Wt. Each
63101	8 in.	1/2 lb.

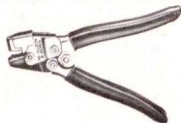
HAND SEAMER



Powerful jaws with compound leverage. Squeezes down without effort on seams. Non-slip plastic grip. Scaled depth marks on jaws. Jawing capacity 3 1/4 in. Seams to 1 1/4 in.

Cat. No.	Length	Approx. Wt. Each
63110	8 in.	1 1/4 lb.

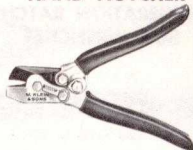
SNAP LOCK PUNCH



Designed to form a raised ear that locks seamed edges of pipe or duct. Compound leverage with spring return action. Non-slip plastic handles. Capacity 20 ga. Set for 3/8 in. depth. Adjusts 1/4 in. to 3/8 in.

Cat. No.	Length	Approx. Wt. Each
63115	8 in.	1 lb.

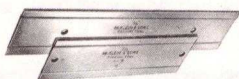
HAND NOTCHER



A fast, easy cutting notcher. Has compound action with spring return action. Makes a clean, effortless cut. 31° angle, 13/16 in. deep. Heavy duty construction.

Cat. No.	Length	Approx. Wt. Each
63120	8 in.	1 lb.

FOLDING TOOLS



Sturdy tools designed to fold 24 to 30 ga. mild steel. Folds both 3/8 and 1/2 in. Folds up to length of tool. Available in 8 in. and 12 in. lengths.

Cat. No.	Length	Approx. Wt.
63125	8 in. x 2 3/4 in.	3/4 lb.
63127	12 in. x 2 3/4 in.	1 lb.

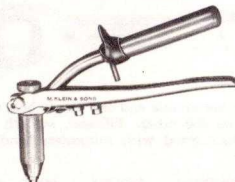
DUCT STRETCHER



Pulls square duct together easily with a rolling action and holds it in place while cleat is slipped on. Thinness of tool makes it ideal for close to the wall or confined installations. Wheels are removable and may be placed on the opposite side to reverse motion when obstructions prevent movement of handle one way.

Cat. No.	Length	Approx. Wt. Each
63135	16 in.	3/4 lb.

2 IN 1 RIVETER



Has two pulling positions—a single long stroke or an easy pulling power stroke. Outside jaw grip adjustment, no need to take gun apart. Small head permits use in a confined space. One hand operation will pull and set rivets of 1/8, 5/32 and 3/16 in. diam. Furnished with three nose pieces: 1/8 in., 5/32 in., and 3/16 in.

Cat. No.	Length	Approx. Wt. Each
63140	8 3/4 in.	1 1/2 lb.



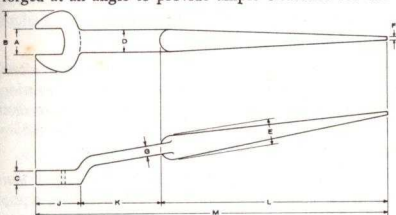
KLEIN ERECTION WRENCHES



The ideal wrench for iron workers. Drop-forged from alloy steel, yellow finish. The round tapered handle is forged at an angle to provide ample clearance for the

hand, yet keep the head in proper position for maximum nut tightening power. Available in heavy, regular and utility patterns.

When ordering wrenches be sure to check correct size.



Cat. No.	Bolt Size	Opening	Length Each	Approx. Wt.
3210 For U.S. Heavy Nut	1/2 in.	3/8 in.	12 in.	1 lb.
3211 For U.S. Heavy Nut	5/8 in.	1 1/8 in.	14 3/4 in.	1 3/4 lb.
3212 For U.S. Heavy Nut	3/4 in.	1 1/4 in.	17 in.	2 lb.
3213 For U.S. Heavy Nut	7/8 in.	1 3/4 in.	17 3/4 in.	2 3/4 lb.
3214 For U.S. Heavy Nut	1 in.	1 3/4 in.	17 1/4 in.	3 3/4 lb.
3220 For U.S. Regular Nut	1/2 in.	1 3/8 in.	12 in.	1 lb.
3221 For U.S. Regular Nut	5/8 in.	1 in.	14 3/4 in.	1 3/4 lb.
3222 For U.S. Regular Nut	3/4 in.	1 1/8 in.	17 in.	2 lb.
3223 For U.S. Regular Nut	7/8 in.	1 3/8 in.	17 3/4 in.	2 3/4 lb.
3224 For U.S. Regular Nut	1 in.	1 1/2 in.	17 1/4 in.	3 3/4 lb.
3231 For Utility Nut	5/8 in.	1 3/8 in.	14 3/4 in.	1 3/4 lb.
3232 For Utility Nut	3/4 in.	1 1/8 in.	17 in.	2 lb.

BOLT SIZE	A NOMINAL OPENING			B	C	D	E	F	G	J	K	L	M
	U.S. HEAVY	U.S. REG.	UTILITY										
1/2	7/8	1 1/16	1 3/16	1 1/16	3/8	5/8	3/8	1/8	1/4	1 1/16	3	7 1/16	12
5/8	1 1/16	1	1 5/16	2 7/32	7/16	7/8	7/8	1/8	3/16	1 3/4	3	10	14 3/4
3/4	1 1/4	1 1/8	1 1/2	2 1/2	9/16	1	1	1/8	3/8	2	4	11	17
7/8	1 5/8	1 5/8	1 5/8	3 1/16	1 1/16	1 1/8	1 1/8	3/16	1/2	2 1/2	4	11	17 3/16
1	1 3/4	1 1/2	1 1/2	3 11/32	1 1/16	1 1/8	1 1/8	3/16	1/2	2 1/16	4	11	17 11/16

"SAFE-T" HEAD BULL PINS



Improved bull pin design which has shoulders forged below the head to permit use of a wrench to break free in the event of pin hang-up. Edges have fifteen degree angle with all radii and fillets blended to provide greater strength and reduce danger of chipping. Taper head design provides better grip and reduces chance of slipping from hand when aligning holes. Long, even taper of pin reduces possibility of hang-up. Available in two sizes.

Cat. No.	Diam. Top	Length	Point	Approx. Wt. Each
3256	1 1/8 in.	10 in.	1/4 in.	1 3/4 lb.
3255	1 1/4 in.	13 1/2 in.	5/16 in.	2 lb.

BULL PIN



Made of alloy steel. Length 15 in.

Cat. No.	Size	Point	Approx. Wt. Each
3251	1 1/8 in.	3/8 in.	2 lb.
3252	1 3/8 in.	7/16 in.	2 1/4 lb.

CONNECTING BARS



Hexagonal fit-up bar, drop-forged. One end pointed, the other has 15° chisel end to give greater leverage.

Cat. No.	Hex.	Length	Approx. Wt. Each
3242	3/4 in.	30 in.	4 1/2 lb.



Similar to 3242 but chisel end is straight.

Cat. No.	Hex.	Length	Approx. Wt. Each
3240	3/4 in.	30 in.	4 1/2 lb.

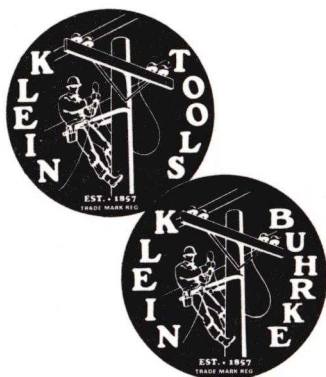
ALL KLEIN-BUHRKE EQUIPMENT MEETS PERFORMANCE STANDARDS OF OSHA

The Occupational Safety and Health Act, OSHA, stipulates the required use of fall protection equipment. The act gives the Secretary of Labor authority to set National Standards for safety and to enforce these standards. All manufacturers, contractors and utility companies should have a thorough understanding of the requirements of OSHA as the penalties for non-compliance are severe.

All Klein-Buhrke quality-crafted equipment has been engineered for safety—designed to meet performance standards required under the rules and regulations of the Occupational Safety and Health Act of 1970 and established Federal standards.

Klein-Buhrke manufactures a complete line of occupational safety belts and harness specifically designed for securing suspending or retrieving a worker in or from a hazardous area. Consult your safety rules and regulations for recommended application of the individual equipment.

If you have any questions regarding these new safety laws, we will be glad to assist you selecting fall arresting equipment and tools to meet your requirements which will all conform to the proposed regulations of the Occupational Safety and Health Act. Write Mathias Klein & Sons, Inc., Chicago, Illinois 60645.

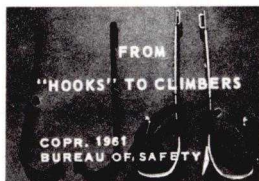


TRAINING FILMS AVAILABLE

Three 35 Millimeter Sound Slide Films, in color, are available for showing without charge from Mathias Klein & Sons, Inc. They were produced by, and may be purchased

from, The Bureau of Safety, 69 West Washington Boulevard, Chicago, Illinois 60602.

FROM "HOOKS" TO CLIMBERS



Film shows that modern climbers are designed for maximum safety and comfort. It depicts steps of manufacture and discusses some common misconceptions of climber techniques and maintenance. Running time—22 minutes.

BELT SAFETY



Film shows proper use of body belts and safety straps. It illustrates defects to look for and defines limits of acceptability. Compares nylon and leather safety straps. Running time—22½ minutes.

NOT GROUNDED—NOT DEAD



Film presents reasons for temporary grounding deenergized transmission and distribution lines. Program instruction method presents twenty questions requiring written answers. Instructions are on the label. Running time—19 minutes.

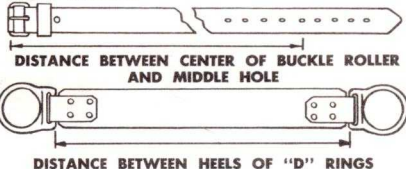


DIRECTIONS TO ASSURE PROPER FIT OF BELTS

The degree of comfort which a lineman obtains from a body belt depends on the location of the "D" rings. In general linemen desire to have the "D" rings located approximately 1 inch ahead of the hip bone. To obtain the correct size belt measure from hip bone to hip bone across the back and add 2 inches. The measuring belt shown below will assist the lineman in determining the correct size belt. This permits a positive measurement from 18" to 30" between "D"s. When belt has been fitted the largest number shown would be the "D" to "D" dimensions.

Standard punching of billet is 9 holes on 1" centers to provide for proper fit in relation to "D" ring measure-

ments. Consideration has been given to variables in circumference of different type belts—exposed rivets versus padded belts, etc. Belts may be made with longer billets at no extra charge to increase the maximum length adjustment.



ORDER BY "D" RING SIZE ONLY

BODY BELT CHART

CUSHION BELTS AS 5249-N, 5266-N, 5268-N, 5282-N

"D" to "D"	18	19	20	21	22	23	24	25	26	27	28	29	30
Buckle to Middle Hole	34	36	38	40	42	44	46	48	50	52	54	56	58

EXPOSED RIVETS AS 5203-N, 5203-NL

"D" to "D"	18	19	20	21	22	23	24	25	26	27	28	29	30
Buckle to Middle Hole	32	34	36	38	40	42	44	46	48	50	52	54	56

Even sizes are most popular and are shown in black. Available from stock.

Odd sizes shown in red are made to order and may be had at no additional charge. Delivery in approximately two weeks.

SIZING BELT



NOT A SAFETY BELT
USE FOR MEASUREMENT ONLY

This belt has been designed to provide a positive measurement from 18" to 30" between "D"s.

Cat. No. 5270
Approx. Wt. Each 1 3/4 lb.

INSTRUCTIONS FOR USING SIZING BELT

A. Unbuckle and unsnap belt so there are two separate parts.

B. Hold dee rings in desired position on hips (usually 1" in front of hip bone) and have someone snap buttons to nearest stud.

C. Now buckle belt on; if dee rings fit where desired, order the largest size visible to the left of the snaps. Note: Disregard location of buckle—correct size buckle end will be furnished with belt if ordered by dee ring size.

SERIAL DATE TAG



All Klein-Buhrke tool belts are identified with a metal tag indicating:

- Catalog Number
- Serial Number
- Date of Manufacture

This information is to aid Safety, Quality Assurance and Inspection Procedure Programs.

ALL KLEIN-BUHRKE BODY BELTS MEET OSHA SPECIFICATIONS

SEMI-FLOATING NYLON-LEATHER TOOL BELT



The strength of nylon and the comfort of leather. Waist strap is $1\frac{3}{4}$ in. wide made of 6 ply "Klein-Kord" nylon. "D" saddle and pocket tabs are made of neoprene impregnated nylon fabric. Double riveted loops are $1\frac{1}{2}$ in. wide made of leather. Cushion is made of chrome elk tanned leather padded with sponge rubber. No exposed rivets on body side of belt. 30° double bar circle "D" rings and waist strap buckle are drop-forged.

ACCESSORIES

- Glove Bag Ring
- Two-way Knife Snap
- Two Pocket Tabs
- Four Suspension "D" Rings
- No. 5133 Hand Line Carrier
- Tape Thong

Cat. No.
5266-N

Width
5 in.

Approx. Wt. E.
4 $\frac{3}{4}$ lb.

FULL FLOATING TOOL BELT



A full floating trace of nylon web $1\frac{3}{4}$ in. wide is attached to the circle "D" rings allowing approximately four inches of free movement. Waist strap $1\frac{3}{4}$ in. wide made of 6 ply "Klein-Kord" nylon. A leather apron securely attached to the cushion separates "D" strap from tool loops. Saddle is made of harness leather. Pocket tabs are made of neoprene impregnated nylon fabric. Double riveted tool loops are $1\frac{1}{2}$ in. wide made of leather. Cushion is made of chrome elk tanned leather padded with sponge rubber. No exposed rivets on body side of belt. 30° double bar circle "D" rings and waist strap buckle are drop-forged.

ACCESSORIES

- Glove Bag Ring
- Two-way Knife Snap
- Two Pocket Tabs
- Four Suspension "D" Rings
- Tape Thong

Cat. No.
5249-N

Width
5 in.

Approx. Wt. E.
5 $\frac{3}{4}$ lb.



LIGHTWEIGHT NYLON TOOL BELT



Waist strap is 1 3/4 in. wide made of 6 ply "Klein-Kord" nylon. "D" saddle and pocket tabs are made of neoprene impregnated nylon fabric. Double riveted tool loops are 1 1/2 in. wide made of leather. Cushion is made of chrome elk tanned leather. No exposed rivets on body side of belt. 90° single bar circle "D" rings and waist strap buckle are drop-forged.

ACCESSORIES

- Glove Bag Ring
- Two-way Knife Snap
- Two Pocket Tabs
- Four Suspension "D" Rings
- Tape Thong

Cat. No.
5268-N

Width
4 1/2 in.

Approx. Wt. Each
4 1/8 lb.

FULL FLOATING TOOL BELT



The strength of nylon and the comfort of leather. A full floating trace of nylon web 1 3/4 in. wide is attached to the circle "D" rings allowing approximately four inches of free movement. Waist strap is 1 3/4 in. wide made of 6 ply "Klein-Kord" nylon. "D" saddle and pocket tabs are made of neoprene impregnated nylon fabric. Double riveted tool loops are 1 1/2 in. wide made of leather. Cushion is made of chrome elk tanned leather, padded with sponge rubber. No exposed rivets on body side of belt. 30° double bar circle "D" rings and waist strap buckle are drop-forged.

ACCESSORIES

- Glove Bag Ring
- Two-way Knife Snap
- Two Pocket Tabs
- Four Suspension "D" Rings
- Tape Thong

Cat. No.
5282-N

Width
5 in.

Approx. Wt. Each
6 3/8 lb.

BELT ACCESSORIES

HANDLINE SAFETY CLIP

Handline safety clip leather thong with clip. Overall length 10½". A tension of between 8 and 12 lb. releases the handline automatically should it snag, thus assuring maximum safety.

Cat. No.
5133

Av. Wt. Per Doz.
½ lb.



5133

TAPE THONG, KNIFE SNAP, "D" RING



5130



5131



5132

Tape thong 12 in. long.

Cat. No.
5130

Approx. Wt. Each
1 ½ oz.

Knife Snap with strap and screw type rivets for attaching to belt.

Cat. No.
5131

Approx. Wt. Each
1 ½ oz.

"D" ring with strap and screw type rivets for attaching to belt.

Cat. No.
5132

Approx. Wt. Each
½ oz.

WRENCH HOLDER



Metal lag-wrench holder riveted to leather pad for attaching with screw type rivets to belt.

Cat. No.
5134

Approx. Wt. Each
¾ oz.

NEAT'S-FOOT OIL



Best grade Neat's-Foot oil in metal can.

Cat. No.
N O-1 Pint Can

Approx. Wt. Each
1 ½ lb.

BELT SUSPENDERS



NOT A SAFETY BELT

Made of lightweight harness leather. Fully adjustable front and back. Each strap is equipped with snap rings are also available. See No. 5132.

Cat. No.
5213

Approx. Wt. Ea.
1 ¾ lb.

WAIST BELT SUPPORTER



NOT A SAFETY BELT

Tool belt supporter, sometimes referred to as a g strap. Waist belt is 1¾ in. wide harness leather. H four ¾ in. wide suspension straps each equipped with a snap and buckle for easy adjustment. Rings are available if desired. See No. 5132.

Cat. No.
5208

Size
36" to 46"

Approx. Wt. Ea.
1 ¾ lb.

5208-N Same as above but made of 6 ply Klein-Kor nylon. Waist belt 1¾ in. wide. Four ¾ in. wide neoprene impregnated nylon adjustable suspension straps with snaps.



ELECTRICIANS POCKETS

A high-quality leather pouch specially designed for electricians. Has extra large gusseted utility pocket, three plier pockets, two screwdriver pockets and knife snap.

Cat. No.	Over All-Size	Approx. Wt. Each
5127	7 in. x 10 in.	7/8 lb.

A high-quality leather pocket identical with 5127 but made with a tunnel loop in place of slots.

Cat. No.	Overall Size	Approx. Wt. Each
5127T	7 in x 10 in.	1 lb.

High-quality leather pouch specially designed for electricians. Has large gusseted utility pocket, two plier pockets, two screwdriver pockets and a knife snap.

Cat. No.	Over All-Size	Approx. Wt. Each
5126	6 1/2 in. x 8 1/2 in.	5/8 lb.

Made of high-quality leather. Provides room for an extraordinary number of tools. Four large gusseted utility pockets. Two plier pockets. Two pockets for screwdrivers. In addition a knife snap is provided.

Cat. No.	Overall Size	Approx. Wt. Each
5164	8 3/4 in. x 10 in.	1 1/8 lb.

A utility pocket of finest chrome leather—soft and pliable. Has two large utility gusseted pockets, two screwdriver pockets, hammer loop, three plier pockets and one chain tape thong. Tunnel loop for attaching to belt.

Cat. No.	Overall Size	Approx. Wt. Each
5166	7 in. x 10 in.	7/8 lb.

This high quality leather pouch is curved to fit the hip providing greater comfort. Large utility pocket gives ample room for electricians tools. A smaller utility pocket, two plier pockets, and two screwdriver pockets are provided. Pouch has chain tape thong and knife snap. Slots permit fastening to belt.

Cat. No.	Size	Approx. Wt. Each
5168	8 1/2" x 11"	1 lb.

Here is a telephone installer's pocket, made of highest grade harness leather, riveted throughout to assure long life. Ten separate compartments provide places for a wide variety of pliers, screwdrivers and other tools. Equipped with ring and tape thong. Slots permit fastening to belt.

Cat. No.	Size	Approx. Wt. Each
5190	8 3/4 in. x 6 in.	7/8 lb.

Newly developed electrician's pouch, curved to fit the hip, assuring greater comfort. Made of genuine, high quality leather. Has large utility pocket, two plier pockets and knife snap. Slots permit fastening to belt.

Cat. No.	Size	Approx. Wt. Each
5150	7 1/2" x 9"	5/8 lb.



Cat. No.
5127T



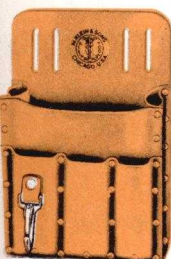
Cat. No.
5166



Cat. No.
5168



Cat. No.
5150



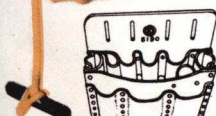
Cat. No.
5127



Cat. No.
5126



Cat. No.
5164



Cat. No.
5190

Drawing indicates
arrangement
of pockets

SCISSORS POCKETS



A high quality strap leather pocket designed to hold Klein electrician's scissors No. 2100. Loop provided at back of pocket for attaching to waist belt.

Cat. No.	Size	Approx.
5100	6 in.	Wt. Each 1/8 lb.



Scissors pocket. Made of strap leather riveted with clip on back for attaching to belt. Also has slots through which belt may be inserted.

Cat. No.	Size	Approx.
5101	8 in. x 3 1/2 in.	Wt. Each 1/8 lb.



SMALL TOOL POCKET

Small strap leather pouch that can be used on belt or carried in pocket. Will hold a variety of small tools. Flap may be snapped back to form belt loop.

Cat. No.	Size	Approx. Wt. Each
5175	4 1/2" x 7"	3/8 lb.



VOLTAGE TESTER POCKET

A top quality leather pouch designed to hold most standard voltage testers. Strap with snap prevents meter jolting out of pocket.

Cat. No.	Size	Approx. Wt. Each
5138	3 in. x 8 in.	3/8 lb.



FLASHLIGHT POCKET

A pocket of high-quality strap leather designed to hold a two cell flashlight.

Cat. No.	Size	Approx. Wt. Each
5129	3 in. x 8 in.	1/4 lb.



TOOL POUCH

Made of harness leather. Ideal for carrying pliers or other tools in the hip pocket. Prevents wear and cutting of clothes or possible injury.

Cat. No.	Size	Approx. Wt. Each
5111	5 in. x 7 in.	3/8 lb.

LEATHER TOOL POUCH

Made of heavy harness leather with four pockets. An extra long 6 1/2-in. pocket is provided for screwdriver. Has riveted straps for attaching to belt.

Cat. No.	Over-All Size	Approx. Wt. Each
5125	7 in. x 9 in.	3/8 lb.



LEATHER TOOL POUCHES

A strap leather tool pouch having large rear pockets for assorted tools and two front pockets for diagonal and long nose pliers. Has loop for hanging on belt.

Cat. No.	Size	Approx. Wt. Each
5149	6" x 7"	3/8 lb.



A strap leather pouch for such tools as pliers, screwdrivers, etc. Individual pockets for each tool. Has loop for hanging on belt.

Cat. No.	Size	Approx. Wt. Each
5148	8" x 9"	1/2 lb.



Strap leather utility pouch. 1" reinforced gusset. Has 2" outside pockets.

Cat. No.	Size	Approx. Wt. Each
5145	5 1/4 in. x 7 in.	1/2 lb.





POUCHES FOR LINEMEN



Made of high-quality harness leather. An all-purpose pocket for pliers, folding rule and screwdriver. Openings at bottom. Slotted and punched for easy attachment to belt.

Cat. No.	Size	Approx. Wt. Each
5118-PRS	6 1/2 in. x 8 3/4 in.	3/4 lb.

Made of heavy harness leather, slotted and punched for easy attachment to belt. Open at bottom. Pocket for side cutting plier and one for screwdriver.

Cat. No.	Size	Approx. Wt. Each
5118-S	4 in. x 8 in.	1/2 lb.



Made of heavy harness leather. Slotted and punched for easy attachment to belt. One pocket for side cutting plier and a separate pocket for 6-ft. rule.

Cat. No.	Size	Approx. Wt. Each
5118-R	4 3/4 in. x 8 in.	3/4 lb.

Made of top quality leather slotted and punched for attachment to belt. Has pocket for side cutting plier and one for skinning knife.

Cat. No.	Size	Approx. Wt. Each
5118-K	4 1/2 in. x 9 in.	1/2 lb.



Made of top quality harness leather. Four pockets to hold plier, rule, screwdriver and wrench or adjustable plier. Has two way knife snap. Slotted and punched for easy attachment to belt. No exposed rivets in back.

Cat. No.	Size	Approx. Wt. Each
5118-C	6 1/2 in. x 8 in.	1/2 lb.

PLIER POCKETS

Made of high-quality harness leather. Has slots through which belt may be inserted or it can be riveted on to body belt. Nose protrudes through opening at bottom. Two sizes available, one will hold 6 or 7 inch plier, the other 8 or 9 inch plier.

Cat. No.	Size	Approx. Wt. Each
5107-6	3 1/2 in. x 8 1/2 in.	1/4 lb.
5107-9	3 3/4 in. x 11 in.	3/8 lb.



Similar to 5107 except plier does not protrude. Bottom is open to prevent collection of dirt or water. Has slots through which belt may be inserted or it can be riveted on.

Cat. No.	Size	Approx. Wt. Each
5112	3 1/2 in. x 9 in.	3/8 lb.



KNIFE POCKET

Harness leather pocket for holding skinning knife. Slotted for attaching to belt. Can also be carried in hip pocket.

Cat. No.	Size	Approx. Wt. Each
5163	3 in. x 9 in.	3/8 lb.

UTILITY BAG



A sturdy white canvas bag with strong zipper. Room for pliers, wrenches, etc.

Cat. No.	Size	Approx. Wt. Each
5139	6" x 12"	1/8 lb.

SMALL PARTS BAGS



A 12 oz. olive drab fabric bag with four divided compartments to hold small parts. Drawstring provides easy closure.

Cat. No.	Diam.	Depth	Approx. Wt. Each
5147	11"	3"	3/8 lb.



A 12 oz. olive drab fabric bag of large capacity. Has ten separate compartments for holding small parts. Drawstring provides easy closing.

Cat. No.	Diam.	Depth	Approx. Wt. Each
5151	11 in.	6 in.	1/2 lb.

ALL PURPOSE BAG



All purpose leather bag, light weight. Ideal for carrying loose tools and small parts. Large loops for attaching to body belt.

Cat. No.	Size	Approx. Wt. Each
5146	9" x 8" x 3"	3/8 lb.

BUG BAG



A large roomy pouch or "bug" bag. Made of strong leather with gussets of soft, pliable leather. Attaches to belt with latigo leather thongs. Pouch expands 6 1/2" x 6 1/2" x 3 1/4".

Cat. No.	Size	Approx. Wt. Each
5140-K	7" x 9"	3/4 lb.

UTILITY BAG



Made of #8 heavy brown canvas with 1/4 in. rope rim in top. Snaps on belt loops for easy attachment. Ventilating eyelet in bottom.

Cat. No.	Size	Top Opening	Approx. Wt. Each
5142	9 in. x 10 in.	8 in. x 3 in.	5/8 lb.
5142-P	Same as 5142 but with inside pocket.		

BOLT BAG



Made of No. 8 canvas. Oval top approximately 5 in. 9 in. Bag 10 in. deep with double bottom and 3 belt loops. Tapered tool loop on each side.

Cat. No.	Approx. Wt. Each
5416	1/2 lb.
5416-L	3/4 lb.
Same as 5416 but made of chrome leather.	



HAMMER HOLDERS

Made of high quality harness leather—slotted to slide over 2 in. belt.

Cat. No.	Size	Approx. Wt. Each
5457	4 1/4 x 10 1/2 in.	1/2 lb.

Made of strap leather with wire hammer loop riveted to leather. Lined with leather. Slotted for attaching to belt.

Cat. No.	Size	Approx. Wt. Each
5456	4 1/2 in. x 8 in.	1/4 lb.

WRENCH HOLDERS

Leather wrench holder with 3 in. web loop for sliding on belt.

Cat. No.	Approx. Wt. Each
5459	1/4 lb.

Made of No. 4 canvas. Bottom formed from hard leather. Diameter 2 1/2 in. Front 12 in. Back 15 1/2 in. Web loop for sliding over belt.

Cat. No.	Approx. Wt. Each
5460	1/4 lb.

Same as 5459 but all leather. Slotted for 2 in. belt.

ELECTRODE BAG

Made of No. 4 canvas. Bottom formed from hard leather. Diameter 2 1/2 in. Front 12 in. Back 15 1/2 in. Web loop for sliding over belt.

Cat. No.	Approx. Wt. Each
5471	3/8 lb.

DRIFT PIN HOLDER

Made of harness leather slotted for attaching to 2 in. belt.

Cat. No.	Approx. Wt. Each
5417	3/8 lb.
5418	3/8 lb.

Same as 5417 but with web loop for attaching to 3 in. belt.

SNAP LOOP

Snap on the end of leather loop. Attaches to 3 in. belt.

Cat. No.	Approx. Wt. Each
5458	1/4 lb.

ELECTRICIANS' WAIST BELTS



A lightweight belt of web belting with strap leather tool loop and chain tape thong. Furnished with friction buckle.

Cat. No.	Size Adjustable	Belt Width	Approx. Wt. Each
5227-M	32"-40"	1 1/2"	3/8 lb.
5227-L	40"-48"	1 1/2"	3/8 lb.
5227-XL	48"-56"	1 1/2"	3/8 lb.



A lightweight belt of strap leather with tool loops and chain tape thong. May be used with Klein pouches.

Cat. No.	Size Adjustable	Belt Width	Approx. Wt. Each
5207-M	32"-40"	1 1/2"	3/8 lb.
5207-L	38"-46"	1 1/2"	3/8 lb.
5207-XL	46"-54"	1 1/2"	3/4 lb.



A utility waist belt made of 7/8 oz. strap leather 1" wide by 48" long. Designed to carry lightweight tool pouches. Adjusts from 33 to 45".

Cat. No.	Belt Width	Approx. Wt. Each
5201	1"	1/4 lb.



Made of finest quality leather. 2 in. wide, equipped with double tongue buckle. **THIS IS NOT A SAFETY BELT.**

Cat. No.	Size Adjustable	Av. Wt. Each
5415	36 to 44 in.	3/8 lb.

"KLEIN-KORD" * NYLON SAFETY STRAPS



STOP WHEN YOU SEE RED

Mathias Klein & Sons, Inc. originated the first fabric safety strap in 1934 and has pioneered every development in the improvement of the fabric safety strap ever since.

Klein introduced the use of nylon in safety straps some years ago and with the many improvements that have been made in this synthetic fiber "Klein-Kord" Safety Straps are recognized by linemen and utilities as possessing all the desirable characteristics required by safety straps. Some of the advantages of "Klein-Kord" Safety Straps are:

*Trade-Mark Registered patent #2152943

WEAR. "Klein-Kord" Nylon Safety Straps will give longer life because of their superior construction. The fabric is firmly woven, providing a smooth, easy-sliding surface. It has the famous red center of nylon originally developed by Klein which indicates when the strap should be removed from service.

CONDUCTIVITY. Because "Klein-Kord" nylon is made of filament nylon it will not conduct electricity. Dielectric strength is well above the standards set by E.E.I. specifications.

STRETCH. In "KLEIN-KORD" nylon safety straps stretch has almost been eliminated, even when the strap is used over long periods of time. Under test conditions straps show $\frac{1}{4}$ in. stretch under a load of 250 lbs. permanent stretch at any load.

PLY ADHESION. "KLEIN-KORD" nylon safety straps are made of multiple plies of strong, finely woven, dipped filament nylon frictionized in neoprene and vulcanized.

FLEXIBILITY. Unlike many fabric straps, "KLEIN-KORD" nylon safety straps are extremely flexible, assuring maximum comfort in use.

STRENGTH. When tested in use, "KLEIN-KORD" nylon safety straps are capable of a test load far in excess of any working load they will ever be called on to support in service. Lightest in weight, these straps wear out faster than any other safety strap material on the market.

ABRASION. Abrasion tests are performed on a sample selected at random to assure uniform quality.

"KLEIN-KORD" NYLON EXTENSION STRAP



Used in connection with safety straps where extra length is necessary when working on large diameter poles. Has circle, drop forged, "D" ring.

Cat. No.	Size and Description	Approx. Wt. Lb.
5236	1 $\frac{3}{4}$ " x 15" Standard snap	1 $\frac{1}{2}$
KL-5236	1 $\frac{3}{4}$ " x 15" "Klein-Lok" snap	1 $\frac{3}{4}$



"KLEIN-KORD" NYLON SAFETY STRAP

Meets All Requirements of O.S.H.A. Specifications.



Made of high tenacity continuous filament nylon fabric, thoroughly impregnated with neoprene to provide the desired flexibility with maximum strength. "KLEIN-KORD" nylon safety straps have the highest dielectric characteristics and abrasion resistance of any material available. Equipped with drop-forged and heat treated single tongue buckle and snap. Standard length 5'8". Can also be furnished from stock in following lengths: 6', 6'6", 7', 8'. Longer lengths to order.

Cat. No.	Size and Description	Approx. Wt. Each
5295	1 3/4" x 5'8" Standard Snaps	3 lb.
KL-5295	1 3/4" x 5'8" "Klein-Lok" snaps	3 lb.
KL-5296	Same as 5295 but fixed end has standard snap and double end has "Klein-Lok" snaps.	

"KLEIN-KORD" NYLON FIXED LENGTH SAFETY STRAP



Made of "KLEIN-KORD" as described above but length is fixed. Standard length 4'8". Other lengths can be furnished to order.

Cat. No.	Size and Description	Approx. Wt. Each
5234	1 3/4" x 4'8" Standard snaps	2 1/2 lb.
KL-5234	1 3/4" x 4'8" "Klein-Lok" snaps	2 1/2 lb.

LEATHER SAFETY STRAP—NYLON CENTER



Designed to conform to OSHA requirements. Double thick latigo leather with woven web center. Furnished to order. Equipped with drop-forged and heat treated snap on each end.

Cat. No.	Size and Description	Approx. Wt. Each
5272	1 3/4 in. x 6 ft. Standard Snaps	3 lb.
KL-5272	1 3/4 in. x 6 ft. "Klein-Lok" Snaps	3 lb.

Can be furnished from stock in 6'6" and 7' lengths.

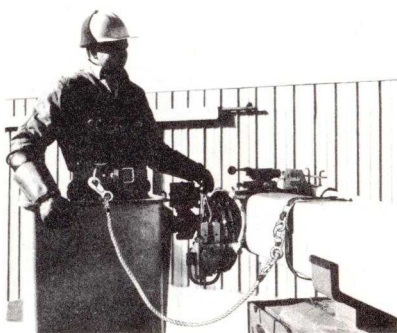
FOR QUALITY CONTROL SAFETY RECORDS

Catalog number and date of manufacturer are stamped on metal clip of fixed end of safety strap.



"KLEIN-LOK" SNAPS

"KLEIN-LOK" Snaps are recommended for greater safety. To engage or release snap it is necessary to depress both latches at the same time. This can be done with one hand. Tested to meet or exceed Federal Specifications. Snaps are supplied on Klein Safety Straps only and are not sold separately.



AERIAL BASKET TOOL BUCKET



Specially designed for attaching to aerial baskets. Made of heavy duty No. 6 canvas. Inside are 15 pockets for tools. Plastic hooks hold bucket either inside or outside the basket.

Cat. No.	Length	Width	Depth	Approx. Wt. Each
5144	14"	8"	10"	2 1/2 lb.

HOOK FOR TOOL BUCKET



ABS hook designed to hang buckets on the edge of aerial baskets. Also provides a hanging hook for line hose bags, tool buckets, and hand lines. Made of styrene based plastic which withstands climatic temperature changes more readily than PVC plastics.

Cat. No.	Approx. Wt. Each
5144-H	1/8 lb.

AERIAL BASKET TOOL CARRIER



Made of heavy naugahyde, equipped with tool loops, tool holster, knife sheath and small parts bag. Designed to hang inside aerial basket to make tools readily available. Stiffening rod on top holds carrier straight.

Cat. No.	Width	Length	Approx. Wt. Each
5169	19"	21"	3 lb.

AERIAL BASKET LANYARD



Made of 1/2" polypropylene with No. 468 snap on each end. Standard length 5' other lengths available.

Cat. No.	Length	Diam.	Approx. Wt. Each
5489-P-1/2	5'	1/2"	1 lb.

AERIAL BASKET ASSEMBLIES

The development of aerial basket equipment has brought the need for specially designed safety straps and assemblies for aerial basket work. Here are two assemblies developed by Klein-Buhrke for this purpose. Other assemblies can be made to your specifications.

Cat. No.	Description	Approx. Wt. S
5220	Assembly consists of boom strap 5217, lanyard 5489-P-1/2 and waist belt 5444-LB. These are shown below.	4 1/2 lb.
5221	Assembly consists of boom strap 5217, lanyard 5489-P-1/2 and waist belt 5216. These are shown below.	4 1/2 lb.

AERIAL BASKET BOOM STRAP



Made of woven nylon web neoprene treated fabric. Flexible, will conform to various shaped booms. Adjustable friction buckle permits snug take up. Drop forged circle "D" ring is adjustable with pad holding "D" ring in position.

Cat. No.	Length	Width	Approx. Wt. Each
5217	54 in.	1 3/4 in.	1 1/4 lb.
5217-2D	Same as 5217 but equipped with two adjustable drop-forged circle "D" rings for two-man buckets		

AERIAL BASKET WAIST BELT



Made of neoprene impregnated nylon. Has free running circle "D" ring across the back. Cushion is 4" wide tapered on the sides. Waist belt is 1 3/4" wide, made of 6 ply "Klein-Kord."

Cat. No.	Approx. Wt. Each
5216	2 lb.

LIGHTWEIGHT WAIST BELT



A lightweight flexible belt made of 1 3/4" woven nylon webbing. Circle "D" ring has leather liner around the bar which prevents wear of webbing. Equipped with forked tongue buckle and wrap around leather bilge.

Cat. No.	Width	Approx. Wt. Each
5444-LB	1 3/4"	2 lb.

FOR ADDITIONAL SELECTIONS OF WAIST BELTS, HARNESS AND LANYARDS SEE PAGES 18 THROUGH 25

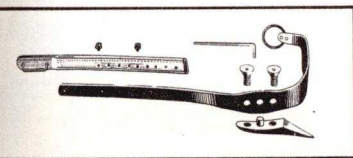
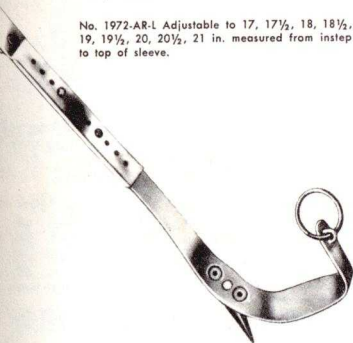


1972-AR REPLACEABLE GAFF ADJUSTABLE CLIMBER

FOR MAXIMUM SAFETY FOR MAXIMUM COMFORT

No. 1972-AR Adjustable to 15, 15½, 16, 16½, 17, 17½, 18, 18½, 19 in. measured from instep to top of sleeve.

No. 1972-AR-L Adjustable to 17, 17½, 18, 18½, 19, 19½, 20, 20½, 21 in. measured from instep to top of sleeve.



Here is a climber that incorporates all the features we have found most desirable in climber design backed by our experience of over 100 years.

The broad stirrup gives greater support to the foot, reducing fatigue. The contoured leg irons, one for the right leg, one for the left bring the gaff in proper line with the leg bone assuring proper positioning with greater security and comfort. The leg irons are drop-forged from select alloy steel, individually heat treated and tested. The replaceable gaff is drop-forged from electric furnace alloy tool steel. Each gaff is individually heat treated and tested. To assure maximum safety, all gaffs are Magnafluxed after heat treatment.

A steel sleeve slips over the leg iron and is held in place with two hex head bolts with Shakeproof Lock Washers. Two sizes are available, one adjustable 15 to 19 in. and the other 17 to 21 in.

Gaffs are held securely to the leg iron by a center pin in the gaff and two flat socket head cap screws.

Climbers are equipped with a split ring to hold ankle strap. This makes it possible to replace the ankle strap quickly and easily even in the field.

Cat. No.		Approx. Wt. Pair
1972-AR	Adjustable 15 in. to 19 in.	4 ½ lb.
1972-AR-L	Adjustable 17 to 21 in.	6 lb.

REPLACEABLE GAFFS

Gaffs are supplied complete with two flat socket head cap screws and wrench.

Cat. No.	Approx. Wt. Pair
72	½ lb.

THE 1972-AR CLIMBER REPLACES 1958-AR and 1959-AR CLIMBERS

1972-AR CLIMBER WITH STRAPS AND PADS



The 1972-AR climber is available with straps and pads. Pads are Klein 8210 made of latigo leather padded with rubberized horse hair. Size 8x8 in. Either nylon or leather calf and ankle straps can be supplied.

Cat. No.		Approx. Wt. Pair
C1972-AR	Adjustable 15 to 19 in.	6 lb.
	With 8210 Pad, 5301-09 Leather Calf Straps and 5301-26 Leather Ankle Straps.	
C1972-AR-L	Adjustable 17 to 21 in.	6 ½ lb.
	With 8210 Pad, 5301-9 Leather Calf Straps and 5301-26 Leather Ankle Straps.	
CN1972-AR	Adjustable 17 to 21 in.	6 lb.
	With 8210 Pad, 5301-18 Nylon Calf Straps and 5301-19 Nylon Ankle Straps.	
CN1972-AR-L	Adjustable 17 to 19 in.	6 ½ lb.
	With 8210 Pad, 5301-18 Nylon Calf Straps and 5301-19 Nylon Ankle Straps.	

IN THE INTERESTS OF SAFETY WE RECOMMEND THAT ONLY THE ORIGINAL GAFF AND TWO REPLACEMENTS BE USED.

"POLE-MASTER" CLIMBERS

Adjustable to 15, 15½, 16, 16½, 17, 17½, 18, 18½, 19 in. measured from instep to top of slide.



Matched pairs right and left. Wide stirrup gives better support. Offset shank brings gaff in proper line with leg bone assuring greater security and comfort. Riveted top loop, circular split ring at ankle. Gaff 1½" measured on underside. Aluminum finish. Every climber individually tested. Straps and pads shown on following pages.

Cat. No.		Approx. Wt. Pair
1945-A		4½ lb.
*C1945-A	Complete with straps and pads	6 lb.
†CN1945-A	With straps and pads	6 lb.
1945-AL	Adjustable 17" to 21"	4½ lb.
*C1945-AL	With straps and pads	6½ lb.
†CN1945-AL	With straps and pads	6½ lb.

*Furnished with No. 5301-9 leather calf straps, 5301-26 leather ankle straps and 8210 climber pads.

†Furnished with No. 5301-18 nylon calf straps, 5301-20 nylon ankle straps and No. 8210 climber pads.

FIXED GAFF CLIMBERS

Adjustable to 15, 15½, 16, 16½, 17, 17½, 18, 18½, 19 in. measured from instep to top of slide.



Accepted as standard by utilities for many years. Gaff 1½" measured on underside. Riveted strap loops. Aluminum finish. Every climber individually tested. Straps and pads shown on following page.

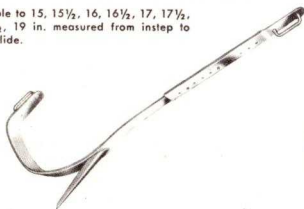
Cat. No.		Approx. Wt. Pair
1901-M-A		4½ lb.
*C1901-M-A	Complete with straps and pads	6¼ lb.
†CN1901-M-A	Complete with straps and pads	6¼ lb.
1901-M-AL	Adjustable 17-21 in.	4¾ lb.
*C1901-M-AL	Complete with straps and pads	6¾ lb.
†CN1901-M-AL	Complete with straps and pads	6¾ lb.

*Furnished with No. 5301-9 leather calf straps, 5301-10 leather ankle straps and 8210 climber pads.

†Furnished with No. 5301-18 nylon calf straps, 5301-19 nylon ankle straps and No. 8210 climber pads.

TREE CLIMBERS

Adjustable to 15, 15½, 16, 16½, 17, 17½, 18, 18½, 19 in. measured from instep to top of slide.



An adjustable pattern climber with extra long gaff designed to offer maximum safety in climbing trees. Gaff 3½" long measured on the underside. Straps and pads shown on following page.

Cat. No.		Approx. Wt. Pair
*C1907-A	Complete with straps and pads	6½ lb.
†CN1907-A	Complete with straps and pads	6½ lb.
*C1907-AL	Complete with straps and pads	6½ lb.
†CN1907-AL	Complete with straps and pads	6½ lb.

*Furnished with No. 5301-9 leather calf straps, 5301-10 leather ankle straps and 8210 climber pads.

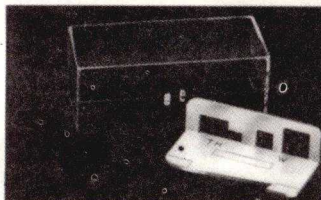
†Furnished with No. 5301-18 nylon calf straps, 5301-19 nylon ankle straps and No. 8210 climber pads.

SPLIT RING FOR ANKLE STRAP



To simplify the replacing of ankle straps Klein has developed a split ring. The strength of the new Klein Split Ring far surpasses the most rigid safety requirements. Since no special tools are required, installation or removal of the climber straps may be readily accomplished in the field. As shown in the illustration it is only necessary to open the split ring and thread it through the riveted loop of the climber just as you slip a key onto a key ring. All Klein movable ring climber straps are now supplied with split rings.

KLEIN GAFF GAUGE



Assures properly sharpened gaffs. Comes in hing plastic box with instructions.

Cat. No.
KG-1

Approx Wt. Pair
1½ oz.



NYLON CLIMBER STRAPS

Cat. No.	Approx. Wt. Pair
301-21 One pair (calf straps) 1 1/4 in. x 22 in.	3/8 lb.
301-18 One pair (calf straps) 1 in. x 22 in.	3/8 lb.
301-22 One pair (ankle straps) 1 1/4 in. x 26 in.	3/8 lb.
301-19 One pair (ankle straps) 1 in. x 26 in.	1/2 lb.

LEATHER CLIMBER STRAPS

Cat. No.	Approx. Wt. Pair
301-4 One pair (calf straps) 1 1/4 in. x 22 in.	1/2 lb.
301-9 One pair (calf straps) 1 in. x 22 in.	3/8 lb.
301-14 One pair (ankle straps) 1 1/4 in. x 26 in.	1/2 lb.
301-10 One pair (ankle straps) 1 in. x 26 in.	1/2 lb.

NYLON ANKLE STRAPS

Made of strong durable nylon. Comes assembled with split ring for easy attachment to any climber requiring an ankle ring.

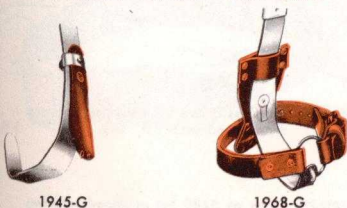
Cat. No.	Size	Approx. Wt. Pair
301-23	One Pair 1 1/4" x 26" with ring	3/4 lb.
301-20	One Pair 1" x 26" with ring	5/8 lb.

LEATHER ANKLE STRAPS

Highest grade leather. Comes assembled with split ring for easy attachment to any climber requiring an ankle ring.

Cat. No.	Size	Approx. Wt. Pair
01-16	One Pair 1 1/4" x 26" with ring	3/4 lb.
01-26	One pair 1" x 26" with ring	5/8 lb.

CLIMBER GAFF GUARDS



Made of top grade leather. Riveted construction Stainless steel spring clip.

Cat. No.	Approx. Wt. Pair
1945-G	1/8 lb.
1968-G	1/4 lb.

Gaff guard attached to ankle strap. Slips over gaff and when climber is in use is secured to climber out of the way.

PADDED CLIMBER PADS



Front made of selected leather, back next to leg, soft latigo leather. Padded with rubberized hair to assure extra comfort. 4" wide at top and 9" long.

Cat. No.	Approx. Wt. Pair
8211	3/4 lb.

ANGLE CLIMBER PADS



Right and left pattern of high-grade latigo leather padded with rubberized hair. Size 8 in. x 8 in.

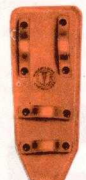
Cat. No.	Approx. Wt. Pair
8210	3/4 lb.



"BELL SYSTEM" PADS

Leather pads, felt lined. 6 1/4" long x 3 1/4" wide at top. Tapering to 2 3/4" at bottom.

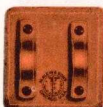
Cat. No.	Approx. Wt. Pair
8205	1/2 lb.



LONG PADS

Made of selected leather with riveted loops. Felt lined. Size 9" x 3 1/2".

Cat. No.	Approx. Wt. Pair
8209	5/8 lb.



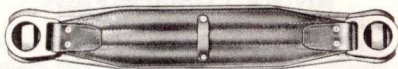
SQUARE PADS

Made of selected leather. 4" x 4" square. Felt lined.

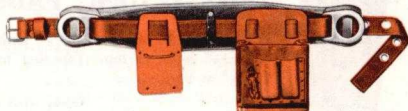
Cat. No.	Approx. Wt. Pair
8201	3/8 lb.

ALL KLEIN-BUHRKE BELTS MEET OSHA SPECIFICATIONS

MODULAR SAFETY BELT



5480-NCP Pad with two "D" rings



Pouches for illustration. Not included in assembly.

Belt may be used as a tool belt or, with pad, as a safety belt. Slotted pockets fit the 5481 Assembly.

This is a brand new concept in a safety belt. The exclusive modular design permits its use as a tool belt or a safety belt. Combining the features of both makes the use of two belts unnecessary.

The complete assembly consists of a belt, body pad with two "D" rings and a 10 ft. adjustable lanyard. The belt may be used as a tool belt without pad and as a safety belt with pad and "D" rings.

BELT—woven nylon web with drop-forged tongue buckle and brass grommets. Width 1 3/4 in.

BODY PAD—Cushion of chrome elk tanned leather padded with sponge rubber. Nylon saddle holds two drop-forged circle "D" rings.

LANYARD—10 ft. adjustable nylon web, friction buckle and two drop-forged snap hooks.

Cat. No.	Description	Approx. Wt. Ea.
5481	Assembly includes belt, pad and lanyard	4 1/4 lb
5480	Belt only (See illustration below)	1 lb
5480-NCP	Pad with two "D" rings	1 1/2 lb
5492-W-10	10 ft. adjustable lanyard	7 lb

NYLON WAIST BELT

Woven nylon with drop-forged tongue buckle and brass grommets. Width 1 3/4 in. Safety orange.

Cat. No.	Approx. Wt. Ea.
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5480 1



5480-1D Same as above but equipped with one drop-forged circle "D" ring. 1 1/4

5480-2D Same as 5480 but equipped with two drop-forged circle "D" rings. 1 1/2



5480-3D Same as 5480 but equipped with three drop-forged circle "D" rings. 1 3/4



BELT SIZES (WAIST)

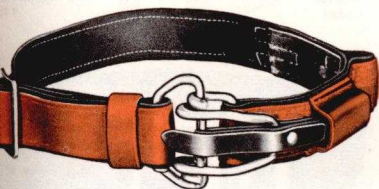
Unless otherwise specified standard 36 in. to 44 in. will be shipped.	
SMALL	32 to 40 in.
STANDARD	36 to 44 in.
LARGE	40 to 48 in.
EXTRA LARGE	44 to 52 in.
Additional charge for extra large.	
STANDARD "D" to "D" 22 IN.	

SERIAL-DATE TAG



All Klein-Buhrke Belts and Harness are identified with a metal tag permanently attached indicating catalog number, serial number and date of manufacture. This information aids the user in safety, quality assurance and inspection procedures.

QUICK RELEASE BELTS



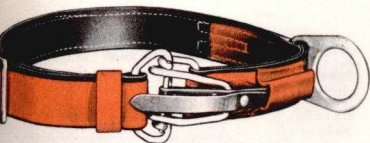
Cat. No.

5465

Approx. Wt. Each

2 lb.

5465-R Supplied with 12 ft. of 1/2 in. nylon rope spliced into rope loop.



ESCAPE BELT WITH "D" RING

Same design as 5465 but equipped with drop-forged circle "D" ring on left side instead of rope loop.

Cat. No.

5466

Approx. Wt. Each

2 lb.



ESCAPE BELT WITH TWO "D" RINGS

Same design as 5465 but equipped with two drop-forged circle "D" rings one on each side.

Cat. No.

5467

Approx. Wt. Each

2 lb.

THREE INCH WIDE ESCAPE BELTS

These belts are the same design as the ones shown above but made of 1 3/4 inch nylon webbing in safety orange and sewn to a 3 inch cotton webbing pad mildew treated.

Cat. No.

5462

Approx. Wt. Each

Same as 5465. Belt is 3 in. wide and has rope loop.

2 lbs.

5462-R

Same as 5462 but has 12 ft. 1/2 in. nylon rope spliced into rope loop.

3 lbs.

5463

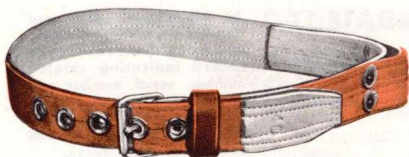
Same as 5462 but has "D" ring on left hand side instead of rope loop.

3 lbs.

5464

Same as 5462 but has 2 circle "D" rings one on each side.

3 lbs.



NYLON WAIST BELT

Combination woven nylon belt $1\frac{3}{4}$ in wide, lined with chrome elk tanned leather. Special weave of webbing permits awling for insertion of brass grommets. Equipped with rope loop which may be used as a hammer loop where safety line is not required.

Cat. No.

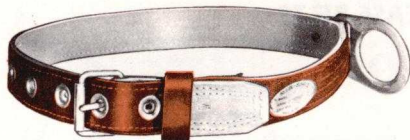
5440

Approx. Wt. Ea.

$1\frac{1}{4}$ lb.

5440-R Same as 5440 but with 12 ft. of $\frac{1}{2}$ in. nylon rope spliced into rope loop. Free end has 468-5 snap.

$2\frac{3}{4}$ lb.



NYLON BELT WITH "D" RING

Same as 5440 but is equipped with drop-forged circle "D" ring, attached to center of back instead of rope loop.

Cat. No.

5441

Approx. Wt. Ea.

$1\frac{1}{4}$ lb.



NYLON BELT WITH 2 "D"'s

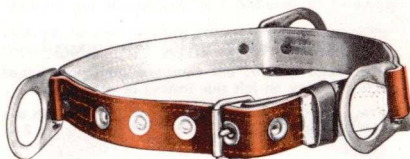
Same as 5440 but is equipped with two drop-forged circle "D" rings, attached one on each side.

Cat. No.

5442

Approx. Wt. Ea.

2 lb.



NYLON WAIST BELT WITH 3 "D"'s

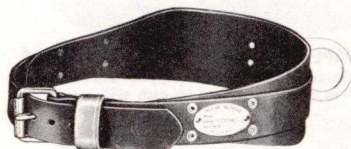
Same as 5440 but is equipped with three drop-forged circle "D" rings.

Cat. No.

5443

Approx. Wt. Ea.

$2\frac{1}{2}$ lb.



4 INCH NYLON BELT

Made of neoprene impregnated nylon. Has fixed drop-forged circle "D" ring in back. Cushion is 4 in. wide tapered on the sides. Waist belt is $1\frac{3}{4}$ in. wide made of six ply "Klein-Kord."

Cat. No.

5412-N

Approx. Wt. Ea.

2 lb.



AERIAL BASKET WAIST BELT

Made of neoprene impregnated nylon. Has free ring circle "D" ring on the back. Cushion is 4 in. wide tapered on the sides. Waist belt is $1\frac{3}{4}$ in. wide made of six ply "Klein-Kord."

Cat. No.

5216

Approx. Wt. Ea.

2 lb.



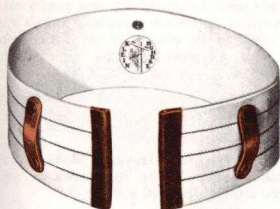
LEATHER BILLET

Any web belt may be had with a forked tongue buckle and wrap around leather billet as illustrated.

BELT PAD

Made of 4 in. cotton mildew treated. Available in two sizes. Recommended for maximum comfort.

Cat. No.	Size	Approx. Wt. Each
5445	30 in. long	2 lb.
5445-S	22 in. long	1 3/4 lb.



LIGHT FLEXIBLE BELT

A lightweight, flexible belt of 1 3/4 in. woven nylon webbing. Drop-forged "D" ring attached to left side has leather liner around the bar which prevents excessive wear of webbing. Equipped with friction buckle.

Cat. No.	Approx. Wt. Each
5444	1 lb.
5444-N	1 lb.

Same as 5444 but made of Klein-Kord nylon, equipped with drop-forged "D" ring and forked tongue buckle.

5444-LB	1 1/2 lb.
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Same as 5444 but equipped with drop-forged circle "D" ring, forked tongue buckle and wrap around leather billet.



"D" RING BELT ADJUSTABLE

Made of woven nylon webbing 1 3/4 in. wide. Drop-forged single bar, circle "D" ring is inserted behind waist webbing and is held in place by slide that permits adjustment to any position. Equipped with friction buckle.

Cat. No.	Approx. Wt. Each
5475	1 lb.
* 5475-LB	1 1/2 lb.

Same as 5475 but has forked tongue buckle and wrap around leather billet.

5475-2D	1 1/2 lb.
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Same as 5475 but has 2 adjustable "D" rings.

5475-LB-2D	1 1/4 lb.
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Same as 5475-LB but has 2 adjustable "D" rings.

*California Approval 2616.



FLEXIBLE BELT 2"D's

Made of woven nylon webbing 1 3/4 in. wide. Section of webbing runs from "D" to "D" then folds over and is sewn to the main waist belt. Leather liner around bar of "D" rings prevents excessive wear. Equipped with two drop-forged "D" rings and friction buckle.

Cat. No.	Approx. Wt. Each
5446	1 3/4 lb.
5446-LB	1 1/2 lb.

Same as 5446 but has drop-forged forked tongue buckle and wrap around leather billet.



FABRIC SAFETY BELT

Made of woven nylon webbing 1 3/4 in. wide. 3 in. cotton webbing mildew treated pad stitched to the nylon waist belt. Equipped with two drop-forged "D" rings and friction buckle.

Cat. No.	Approx. Wt. Each
5447	1 1/2 lb.
5447-1D	1 3/4 lb.

*5447-LB Same as 5447 but has drop-forged forked tongue and wrap around leather billet.

1 3/4 lb.

5447-LB-1D Same as 5447-LB but has one "D" ring.

1 1/2 lb.

*California State Approval No. 2617



SAFE GUARD BELT



A complete combination of belt, pouch and lanyard designed as a unit. Lanyard tucks into pouch out of the way when not in use. Pouch is fastened to belt by means of loops and may be placed in any desired position. Tools or other equipment may be carried on belt by loops or pockets fastened to belt.

Belt—1 ¾ in. wide combination of chrome tanned leather and woven orange nylon. Single tongue buckle and 8 grommets.

Pouch—designed to hold lanyard. Made of water repellent canvas. Has ¼ in. rope sewn in top. Dot fastener for closing. Size 10 x 11 in.

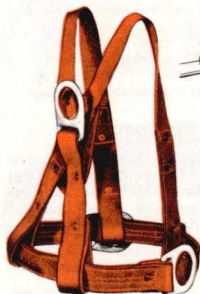
Lanyard—5 ft. long. Made of 1 in. nylon web. Tensile strength 9000 lbs. Has belt loop at one end and No. 468-5 drop-forged snap at the other.

Cat. No.	
5439	Complete Assembly
5439-B	Belt Only
5439-W	Lanyard Only
5439-P	Bag Only

Approx. Wt. Each
2 ½ lb.
1 ¼ lb.
1 lb.
¾ lb.



WEB HARNESS



5438

Ideal for use in quarries, tanks and other places where it may be necessary to lift a man out quickly. Made of 1 ¾ in. wide woven nylon web with three drop-forged "D" rings and friction buckle.

Cat. No.
5438
California State Approval No. 2882

Approx. Wt. Each
2 ½ lb.

Made of 1 ¾ in. wide woven nylon web. Shoulder straps are one continuous piece. Adjustment is made by raising and lowering drop-forged "D" ring through the loop at the back. Equipped with friction buckle.

Cat. No.
5434
5434-LB

Approx. Wt. Each
1 ¼ lb.
1 ½ lb.

Same as 5434 but equipped with forged forked tongue buckle and wrap around leather billet.



5434



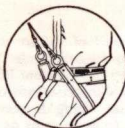
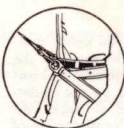


WOVEN NYLON MULTIPURPOSE SAFETY HARNESS



Made of woven nylon webbing stitched to 3 in. wide mildew-treated cotton pads on belt and seat. This multi-purpose belt has many uses. It may be used as a waist belt, as a positioning belt or lifting and lowering belt. Friction buckle.

Cat. No.		Approx. Wt. Each
5483		2 3/4 lb.
5483-LB	Same as above but equipped with forked tongue buckle and wrap-around leather billet.	2 3/4 lb.
5483-S	Same as 5483 but equipped with No. 456 spreader snap.	2 3/4 lb.
5483-S-LB	Same as 5483-LB but equipped with No. 456 spreader snap.	2 7/8 lb.



WALL SUPPORT LIFT HARNESS



Harness is made of woven nylon webbing straps—reinforced with chrome elk tanned leather for grommets "D" pad. Harness is designed to distribute the impact forces of a fall over the thighs, buttock, chest and shoulders. Single bar drop-forged circle "D" ring back for attaching a safety line. Forged tongue buckles for easy adjustment. Shoulder and leg straps permanently stitched in position to waist belt for comfort.

Approx. Wt. Each
4 lb.

TOWER HARNESS



Made of 1 3/4 in. woven nylon web. Harness designed with adjustable shoulder straps, waist belt with forked tongue buckle. Shock load is divided between two areas of the body reducing the impact forces of a free fall.

Cat. No.
5452-H

Approx. Wt. Each
2 3/4 lb.

Complete assembly consists of 5452-H Harness 18 ft. of 1/2 in. nylon rope adjustable lanyard and shock absorber with 468-L locking snap at each end and 7/32 in. steel aircraft cable 21 in. eye to eye for attaching around tower member. Provides maximum safety for workmen on ladders, transmission towers etc.

Cat. No.
5452

Approx. Wt. Each
6 1/2 lb.

EXTENSION STRAPS—for larger sizes not included in assembly

Cat. No.		Approx. Wt. Each
5452-E1	12 in. Chest Extension Strap	3/4 lb.
5452-E2	12 in. Waist Extension Strap	3/4 lb.

BOSUN'S CHAIR

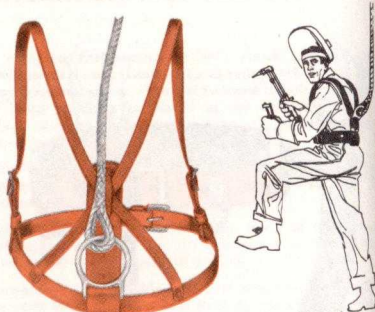


Slings and belt are made of $1\frac{3}{4}$ in. woven nylon webbing with extra drop-forged circle "D" ring on the waist belt for attaching independent life line. Wood seat is 12×24 in., one inch thick, reinforced on the underside with metal cleats. Sling is reeved through four seat holes and cleats so as to cross on the underside of seat.

Cat. No.
5427-N

Approx. Wt. Each
8 $\frac{1}{4}$ lb.

NYLON HARNESS



Made of "Klein-Kord" nylon—chest strap $1\frac{3}{4}$ in. wide. Adjustable 36 in. to 44 in. Shoulder straps are 1 in. wide and are adjustable. Rear support strap equipped with drop-forged circle "D" ring with permanently attached line—25 ft. of $\frac{3}{4}$ in. manila rope.

Cat. No.
5409-N

Approx. Wt. Each
8 $\frac{1}{4}$ lb.

RESCUE AND WORK HARNESS



A parachute type harness designed to keep workmen in upright position when V sling is held taut. Made of $1\frac{3}{4}$ in. nylon webbing. Comes with 5 ft. V sling and 468-5 snaps. Harness adjustable for any type figure.

Cat. No.
5423

Approx. Wt. Each
7 lb.

5423-NS Same as above but equipped with non-sparking hardware.

TREE TRIMMER'S BELT

Made of $1\frac{3}{4}$ in. wide 6 ply Klein-Kord nylon designed to distribute the weight of the wearer along the leg straps as well as the body strap. Equipped with drop-forged circle "D" ring free running across the front to which a safety line can be attached. Adjustable for sizes 36 in. to 46 in.

Cat. No.
5410

Approx. Wt. Each
2 $\frac{1}{4}$ lb.



5410

RE-BAR ASSEMBLY



Designed only to position rod men and provide support permitting him to use both hands. Assembly consists of drop-forged snap hook No. 457-5 with safety latch, Klein drop forged single bar circle "D" ring and swivel to assure freedom of movement. Length of assembly 15 in.

Cat. No.
888

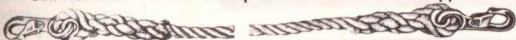
Approx.
Wt. Each
1 $\frac{3}{4}$ lb.



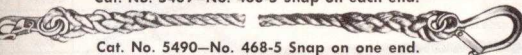
SAFETY LANYARDS



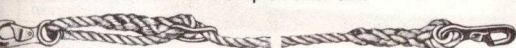
Cat. No. 5488—No. 468-5 Snap one end. Other end Whipped.



Cat. No. 5489—No. 468-5 Snap on each end.



Cat. No. 5490—No. 468-5 Snap on one end.
No. 457-5 Snap on other end.



Cat. No. 5492—Adjustable Sling with No. 468-5 Snap on each end.
And with Rope Adjuster

The above lanyards all come in 5 ft. lengths. Other lengths available on special order.
Nylon filament rope in stock.

ROPE INFORMATION

The first time a rope is loaded, it generally undergoes some permanent change in length. This change is called **PERMANENT ELONGATION**. Upon repeated application of the same load, most ropes elongate and recover elasticity with no further permanent elongation. This property is called **WORKING ELASTICITY**.

The following table gives typical values for various ropes subjected to normal working loads.

ROPE	DIAMETER	AVERAGE BREAKING STRENGTH (pounds)	Permanent Elongation		Working Elasticity	
			Load = 20%	% Of Breaking Strength-Standard Lay 30%	20%	30%
Nylon (Filament)	1/2"	6400	4.0	7.0	22.0	24.0
Nylon (Spun)	1/2"	6700	4.0	7.0	22.0	24.0
Polypropylene	1/2"	5600	2.5	3.0	12.0	13.0
Aircraft Cable	7/32"	5600	Preformed		Practically None	

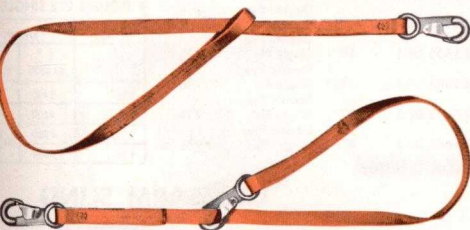
On special order any of the ropes shown can be permanently spliced to a rope loop or "D" ring. Other end can have No. 457 or No. 468 snap hook or have a whipped end.

Cat. No.	Rope	Approx. Wt. Each
5488-N-1/2"	Nylon Spun	1 1/2 lb.
5489-C-7/32"	Aircraft Cable	1 1/8 lb.
5389-N-1/2"	Nylon Filament	1 1/8 lb.
5489-P-1/2"	Polypropylene	1 lb.
5490-C-7/32"	Aircraft Cable	2 lb.
5490-N-1/2"	Nylon Filament	2 1/2 lb.
5490-P-1/2"	Polypropylene	2 lb.
5492-N-1/2"	Nylon Filament	1 7/8 lb.
5492-P-1/2"	Polypropylene	1 7/8 lb.

POLYPROPYLENE LANYARDS ARE SUPPLIED IN SAFETY ORANGE

WHEN ORDERING BE SURE TO GIVE OVERALL LENGTH DESIRED

NYLON WEBBING LANYARDS



Made from 1 in. orange impregnated nylon webbing. Has loop at one end to slip on 2 in. belt and the other end is equipped with a No. 468-5 drop-forged snap hook. Length 5 ft.

Cat. No. 5439-W
Approx. Wt. Each 1 1/4 lb.

Similar to 5439-W but both ends are equipped with No. 468-5 drop-forged snap hooks. Length 5 ft.

Cat. No. 5489-W
Approx. Wt. Each 1 1/2 lb.

ADJUSTABLE NYLON WEBBING LANYARDS



An adjustable lanyard 10 ft. long. Made of orange impregnated nylon webbing. Has drop-forged snap No. 468-5 on one end. The other end has a loop to slip on a 2 in. belt. Width 1 in.

Cat. No. 5493-W-10
Approx. Wt. Each 1 1/2 lb.

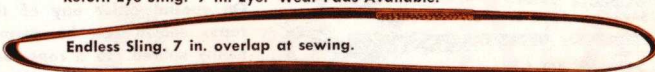
Similar to 5493-W-10 but both ends are equipped with No. 468-5 drop-forged snap hooks. Length 10 ft.

Cat. No. 5492-W-10
Approx. Wt. Each 1 3/4 lb.

NON-METALLIC SLINGS



Return Eye Sling. 7 in. Eye. Wear Pads Available.



Endless Sling. 7 in. overlap at sewing.



Double Eye Sling. 7 in. Eye. 7 in. overlap at sewing.



Double Eye Single Ply Sling. 7 in. Eye. 7 in. overlap at sewing.

3 FT. LENGTH STANDARD — OTHER LENGTHS AVAILABLE. ALL SLINGS TAGGED WITH SAFE WORKING LOADS

Klein-Buhrke Slings are made of specially woven nylon Sling Web approximately 6,000 lbs. tensile per inch of width. Available in 1", 1 1/4", 3" and 4" web. Where extra abrasion resistance is required the eyes and contact sections are lined with tough latigo leather.

FLEXIBILITY. Klein-Buhrke Slings conform to the load and bend across the width of the sling. Rigged in a basket hitch, they provide a gentle flexing action around the load; rigged in a choke hitch, they conform to the arcs of the load, giving maximum support.

SAFETY. Because they are made of soft, flexible nylon these slings have no sharp edges to cut into the load or endanger the worker's hands. Because of their high gripping action there is little danger of the load slipping.

Suggested formula for determining safe working load:

$$\frac{\text{Breaking Strength}}{\text{Safety Factor}} = \text{Safe Working Load}$$

A basket hitch permits slightly more than double the safe working load of a choke hitch.

Cat. No.	Width	Type	Approx. Wt. Each
B 5600-RE-2	2"	Return Eye	1 1/2 lb.
B 5600-RE-2DT	2"	Return Eye	2 1/2 lb.
B 5600-RE-3 1/2	3 1/2"	Return Eye	2 lb.
B 5600-RE-3 1/2 DT	3 1/2"	Return Eye	2 1/2 lb.
B 5601-E-1	1"	Endless	3/8 lb.
B 5601-E-1DT	1"	Endless	1 1/4 lb.
B 5601-E-1 3/4	1 3/4"	Endless	1 lb.
B 5601-E-1 3/4 DT	1 3/4"	Endless	1 1/8 lb.
B 5601-E-3	3"	Endless	2 1/4 lb.
B 5601-E-4	4"	Endless	2 3/4 lb.
B 5602-DE-1	1"	Double Eye Standard	3/4 lb.
B 5602-DE-1 3/4	1 3/4"	Double Eye Standard	1 1/8 lb.
B 5602-DE-3	3"	Double Eye Standard	2 1/4 lb.
B 5602-DE-4	4"	Double Eye Standard	2 3/4 lb.
B 5603-DE-1	1"	Double Eye Single Ply	5/8 lb.
B 5603-DE-1 3/4	1 3/4"	Double Eye Single Ply	1 lb.
B 5603-DE-3	3"	Double Eye Single Ply	2 lb.
B 5603-DE-4	4"	Double Eye Single Ply	2 3/4 lb.

STANDARD COLOR ORANGE

POLE SLING



Made of nylon web stitched with nylon thread 1 1/4 in. wide. Copper rivets with burrs at the point of wear on the pole. Unlimited uses where a running loop wrap around pole is desired. Non-conductive, not affected by oil or creosote. Resistant to moisture, mildew and fungi.

Cat. No.	Length	Approx. Wt. Each
5606	30 in.	1.2 lb.

Other Sizes to Order

SAFE WORKING LOAD

Safety Factor 5 to 1

RETURN EYE TYPE			
WIDTH	NYLON		
	BASKET	CHOK	
2 in.	6000	2800	
2 in. DT	8800	3500	
3 1/2 in.	8400	4200	
3 1/2 in. DT	16000	6150	

ENDLESS TYPE			
WIDTH	NYLON		
	BASKET	CHOK	
1 in.	4800	1700	
1 in DT	8900	3550	
1 3/4 in.	7300	2550	
1 3/4 in. DT	12200	4850	
3 in.	14400	5000	
4 in.	19200	6700	

DOUBLE EYE STANDARD			
WIDTH	NYLON		
	BASKET	CHOK	
1 in.	4800	1700	
1 3/4 in.	7300	2550	
3 in.	14400	5000	
4 in.	19200	6700	

DOUBLE EYE SINGLE PLY			
WIDTH	NYLON		
	BASKET	CHOK	
1 in.	2450	850	
1 3/4 in.	4200	1450	
3 in.	7200	2500	
4 in.	9600	3300	

CROSSARM SLING



Made of 12 plies of nylon laminated together with neoprene and pre-formed for ease in placing around the crossarm prior to vulcanization. 1 in. wide. Rings 1/2 in. welded wire securely riveted with copper rivets and burrs. Non-conductive, not affected by oil or creosote. Resistant to moisture, mildew and fungi. Can be cleaned with regular solvents.

Cat. No.	Length	Approx. Wt. Each
5607	15 1/2 in.	.6 lb.

Other Sizes to Order



LEATHER TOOL BAG



made of harness leather to stand hard usage. Has a leather shoulder strap combined with pad and hand grip. The bottom is three ply protected with steel studs. Retaining straps pass clear around the back for security. All seams lock stitched with waxed nylon thread.

Cat. No.	Size	Av. Wt. Each	Cat. No.	Size	Av. Wt. Each
5108-14	14 x 8 in.	5 lb.	5108-20	20 x 8 in.	6 1/2 lb.
5108-16	16 x 8 in.	5 3/4 lb.	5108-22	22 x 8 in.	7 lb.
5108-18	18 x 8 in.	6 lb.	5108-24	24 x 8 in.	7 1/4 lb.

EXTRA LARGE TOOL BAG



Orange vinyl coated nylon fabric tool bag. Extra large size. Naugahyde reinforced bottom extends 3 inches up the sides. The bottom of the bag is protected with metal studs. Nylon web handles extend around bag for extra support. Wide opening steel frame securely riveted in top of bag. Extra flap for storm protection.

Cat. No.	Size	Depth	Approx. Wt. Each
5180	24 x 10 in.	18 in.	6 1/2 lb.

CANVAS TOOL BAGS



made of one-piece No. 8 white canvas covered on the bottom and 3 in. up the sides with heavy leather lock stitched and cemented. Bottom is protected with steel studs. Mouth has steel frame. Harness leather handles with two retaining straps and buckles. May be furnished with shoulder strap to order. Width 6 in.

Cat. No.	Length	Depth	Av. Wt. Each	Cat. No.	Length	Depth	Av. Wt. Each
5102-12	12"	10"	2 1/4 lb.	5102-20	20"	15"	3 1/2 lb.
5102-14	14"	14"	2 1/2 lb.	5102-22	22"	15"	3 3/4 lb.
5102-16	16"	14"	3 lb.	5102-24	24"	15"	4 lb.
5102-18	18"	14"	3 1/4 lb.				



A strong bag of finest No. 8 white canvas. One piece, covered with leather on the bottom and 8 in. up the sides. Leather is lock stitched and cemented. Bottom protected with steel studs. Mouth of the bag has steel frame. Harness leather handles with two retaining straps and buckles. May be furnished with shoulder strap to order. Width 6 in.

Cat. No.	Length	Depth	Av. Wt. Each	Cat. No.	Length	Depth	Av. Wt. Each
5105-16	16"	14"	3 lb.	5105-22	22"	15"	4 lb.
5105-18	18"	14"	3 1/2 lb.	5105-24	24"	15"	4 1/2 lb.
5105-20	20"	15"	3 3/4 lb.				

CANVAS BUCKETS — NON METALLIC



5104



5106

Most widely used bucket by public utilities and selected as standard by the U.S. Government. Made of No. 1 canvas with cyclac top ring. Bottom is reinforced leather extending 3" up the sides. Inside pocket 8" x 8". Polypropylene rope handle reinforced with leather where it is spliced around top ring.

Cat. No.	Diam. Top	Diam. Bottom	Height	Approx. Wt. Each
5104	12"	12"	17"	3 1/8 lb.
5104-S	Same as above but equipped with No. 2012 malleable swivel snap.			

Made of No. 6 canvas. Has cyclac top ring. Bottom is molded rubber. Polypropylene rope handle is reinforced with leather where it is spliced around top ring.

Cat. No.	Diam. Top	Diam. Bottom	Height	Approx. Wt. Each
5106	9"	9"	14"	1 1/8 lb.
5106-S	Same as 5106 but equipped with No. 2012 malleable swivel snap.			
5106-P	Same as 5106 but with two 7" x 7" inside pockets.			
5106-PS	Same as 5106-P but equipped with No. 2012 malleable swivel snap.			



5109



5103-S

A popular priced canvas bucket, made of No. 6 canvas. Has cyclac top ring and molded rubber bottom. Polypropylene rope handle is reinforced with leather where it is spliced around top ring.

Cat. No.	Diam. Top	Diam. Bottom	Height	Approx. Wt. Each
5109	12"	12"	15"	2 1/4 lb.
5109-P	Same as above but with 8" x 8" inside pocket.			
5109-S	Same as 5109 but equipped with No. 2012 malleable swivel snap.			
5109-PS	Same as 5109-P but equipped with No. 2012 swivel snap.			

Made of No. 1 canvas with cyclac top ring and molded rubber bottom. Polypropylene rope handle spliced around top ring. Equipped with No. 2012 malleable swivel snap.

Cat. No.	Diam. Top	Diam. Bottom	Height	Approx. Wt. Each
5103-S	12"	9"	12"	2 1/8 lb.



5113



5144-S

Made of No. 6 canvas with cyclac top ring and molded rubber bottom. Polypropylene rope handle is reinforced with leather where it is spliced around top ring.

Cat. No.	Diam. Top	Diam. Bottom	Height	Approx. Wt. Each
5113	12"	9"	13"	1 1/8 lb.
5113-S	Same as above but equipped with No. 2012 malleable swivel snap.			

An oval bucket with 15 pockets on the inside. Made heavy duty No. 6 Canvas. Tripod suspension prevents bucket tipping. Snap is attached for hanging over arm hooks or attaching to hand lines.

Cat. No.	Approx. Wt. Each
5144-S	2 3/8 lb.

Any bucket may be had "Vinyl Coated" orange color. Add "VC" after the catalog no.

SWIVEL SNAP HOOK



Malleable Swivel Snap—galvanized. Made especially for use on hoisting buckets. NOT TO BE USED ON SAFETY LINES. Any buckets or line hose bags may be equipped with snap by adding letter S after the catalog Number.

Cat. No.	Length	Approx. Wt. Each
2012	2"	3/8 lb.

CROSS ARM HOOK



Made of 5/16" steel rod vinyl coated. Will withstand voltages up to 20,000 volts. Opening 4 1/2", Length 10 1/2".

Cat. No.	Approx. Wt. Each
2101-V	1/2 lb.



Any glove bag may be had "Vinyl Coated" orange color. Add "VC" after catalog no.

RUBBER GLOVE BAG

Made of hard woven belting duck. Has expansion gusset, $5\frac{1}{2}$ " across the top and $2\frac{3}{4}$ " at bottom. Supplied with two way snap.

Cat. No.	Length	Width	Approx. Wt. Ea.
5121-15	15"	8"	$\frac{3}{4}$ lb.
5121-19	19"	8"	$\frac{7}{8}$ lb.



RUBBER GLOVE BAG

Designed to hold low voltage gloves. Made of durable No. 8 canvas and equipped with two way snap on the back. $2\frac{3}{4}$ in. gusset.

Cat. No.	Length	Width	Approx. Wt. Ea.
5124-12	12"	8"	$\frac{5}{8}$ lb.

Same as 5124 but 15" deep with expansion gusset, $5\frac{1}{2}$ " at top and $2\frac{3}{4}$ " at bottom.

Cat. No.	Length	Width	Approx. Wt. Ea.
5124-15	15"	8"	$\frac{5}{8}$ lb.
5124-17	17"	8"	$\frac{3}{4}$ lb.
5124-19	19"	8"	1 lb.



RUBBER GLOVE BAG

Made of hard woven belting duck. Has $2\frac{3}{4}$ " side gusset. Supplied with two way snap.

Cat. No.	Length	Width	Approx. Wt. Ea.
5123-15	15"	8"	$\frac{3}{4}$ lb.
5123-19	19"	8"	$\frac{3}{4}$ lb.



GLOVE & SLEEVE BAG

A combination bag providing separate storage for gloves and sleeves. Panels made of heavy No. 4 canvas and gussets of No. 10 canvas. Width 8 in. Supplied with two way snap.

Cat. No.	Approx. Wt. Each
5122-14 for 14" gloves	$\frac{7}{8}$ lb.
5122-16 for 16" gloves	$\frac{7}{8}$ lb.
5122-18 for 18" gloves	$\frac{7}{8}$ lb.



IF GLOVE BAGS ARE DESIRED WITH POCKET FOR GOGGLES ADD LETTER "G" AFTER NUMBER.

LADDER BAG

Roomy utility bag. Made of olive drab tightly woven flameproof fabric. Snap buttons on flaps fasten around steel frame which hooks on the step of the ladder or messenger strand. Bag is easily unsnapped.

Cat. No.	Size	Approx. Wt. Each
5114		1 $\frac{1}{2}$ lb.

Complete bag and frame assembly 12" x 6" x 8"

5114-B Bag only	$\frac{3}{8}$ lb.
5114-F Frame only	1 $\frac{1}{8}$ lb.



INSTALLERS BAG

Made of No. 10 water repellant canvas with all seams double stitched. Two pockets are provided for small parts. Bottom is tapered so parts will stay in center. Equipped with snap.

Cat. No.	Diam.	Depth	Approx. Wt. Ea.
5143	6 $\frac{1}{2}$ "	8"	$\frac{3}{8}$ lb.



LINEMEN'S POUCH

One piece construction. Made of tan 12 oz. water repellent canvas with $\frac{1}{4}$ " rope sewed in top. Top 7" diam. 9" deep. Rectangular bottom $7\frac{1}{2}$ " x $3\frac{1}{2}$ ".

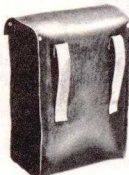
Cat. No.	Approx. Wt. Ea.
5179	$\frac{3}{8}$ lb.
5179-S	$\frac{3}{8}$ lb.
Same as 5179 but with snap instead of belt loops.	



RAINWEAR BAG

Made of waterproof rubberized fabric. Protects rainwear when not in use. Two snap buttons on the flap and belt loops on the back.

Cat. No.	Length	Width	Approx. Wt. Ea.
5128	12"	8 $\frac{1}{2}$ "	$\frac{3}{4}$ lb.



LINE HOSE BAGS



Designed for raising line hose . . . will hold several pieces in available position. May also be used to raise protective rubber blankets that are rolled. Made of No. 6 canvas. Has cyclac top ring and molded rubber bottom. Leather cuff extends 3" up the side. 1/2" polypropylene rope handle is reinforced with leather where it is spliced around top ring. Standard lengths 36", 48", 60" and 72". Other lengths available on special order.

Cat. No.	Diam. Top	Diam. Bottom	Length	Approx. Wt. Each
5110-36	7"	7"	36"	1 1/4 lb.
5110-48	7"	7"	48"	2 1/4 lb.
5110-60	7"	7"	60"	2 3/4 lb.
5110-72	7"	7"	72"	3 1/2 lb.

SLEEVE ROLLS



Sleeve roll made of waterproof canvas. Prevents sharp creasing through insertion of reed alongside. Will accommodate any length sleeve.

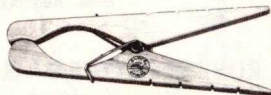
Cat. No.	Length	Approx. Wt. Each
5173-31	31"	1 lb.

BLANKET ROLLS

Blanket roll made of waterproof canvas. Will accommodate rubber blankets 22" x 22", 36" x 36" and 27" x 36". Equipped with heavy straps and a strap carrying handle.

Cat. No.	Approx. Wt. Each
5115-36	3 1/2 lb.
5115-45	Same as above but will accommodate 45" x 45" blanket
	4 lb.

BLANKET CLAMP



Wooden burr clamp designed to hold blankets or wires. Extra heavy spring provides strong tension for high wind areas.

Cat. No.	Length	Approx. Wt. Each
5117	12 in.	1/2 lb.

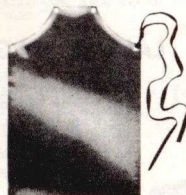
INDUSTRIAL APRONS

Made of heavy duty, long wearing Naugahyde. Vinyl surface has the highest resistance to abrasion of any flexible material, will outwear best quality rubber compounds 10 to 1.

ACID RESISTANT—Exposed, coated side is unaffected by most commercially used concentrates of acids, including nitric and chromate. For specific acid or alkaline conditions write for information.

OIL RESISTANT—Naugahyde will not soften nor become tacky when exposed to oils, fats and oil solvents. Even when such exposure is over a long period of time the coating will only gradually stiffen.

FLAME RESISTANT—Naugahyde material is classified as flash fire resistant and is not easily ignited. It will support combustion only if an open flame is directly applied to it. Naugahyde is a thermo plastic and will soften or melt if exposed to temperatures beyond those that can be endured by workmen.



Cat. No.	Type	Width	Length	Approx. Wt. Each
5530-36	Bib	24"	36"	1 lb.
5530-42	Bib	24"	42"	1 1/4 lb.



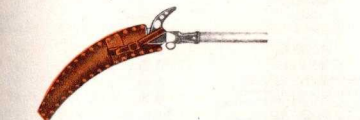
FIBER AND LEATHER GUARDS

Guards are made of vulcanized fiber or harness leather specified. Securely riveted and equipped with adjust-

able web straps. Guards protect the user from cutting edges and also protect the edges in transfer and storage.



No.	Description	Approx. Wt. Each
2	26" Hand Saw Guard, Fiber	1 1/4 lb.
3	30" Docking Saw Guard, Fiber	1 3/8 lb.
5	26" Pruning Saw Guard, Fiber	1 lb.
6	24" Tuttle Tooth Pruning Saw Guard, Fiber	7/8 lb.



No.	Description	Approx. Wt. Each
7	Pole Pruning Saw Guard, Fiber	1/4 lb.



No.	Description	Approx. Wt. Each
8	Cable Saw Guard, Fiber	1/2 lb.

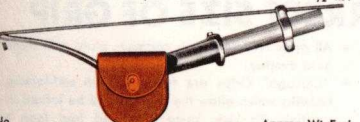


No.	Description	Approx. Wt. Each
9	3 1/2 Lb. Axe or Hatchet Guard, Fiber	1/8 lb.
9-L	Same as above except made of harness leather	3/8 lb.

No.	Description	Approx. Wt. Each
4	Double bit Axe Guard, Fiber	1/2 lb.
4-L	Double bit Axe Guard, Leather	1 lb.



No.	Description	Approx. Wt. Each
1	Bush Hook Guard, Fiber	1/2 lb.



No.	Description	Approx. Wt. Each
0	Tree Trimmer Guard No. 11 Head	1/8 lb.
2	Tree Trimmer Guard No. 12 Head	1/8 lb.



Cat. No.	Description	Approx. Wt. Each
5515	2" Width Chisel Guard, Fiber	3/8 lb.



Cat. No.	Description	Approx. Wt. Each
5517	Cant Hook Guard, Fiber	1/2 lb.



Cat. No.	Description	Approx. Wt. Each
5520-L	Ladder Spur Guard, Leather. Web straps for attaching to bottom rung.	3/8 lb.



Cat. No.	Description	Approx. Wt. Each
5522	26" Curved Pruning Saw Guard, Fiber	1 lb.
5522-L	Will accommodate shorter lengths. Similar to above but made of leather and equipped with ring and snap for attaching to tree trimmer saddle. Leather is usually preferred in tree work.	1 1/4 lb.



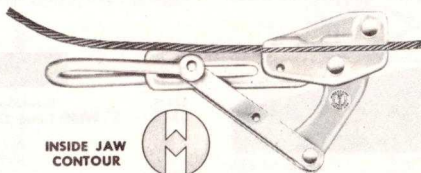
Cat. No.	Description	Approx. Wt. Each
5574-L	Splitting or Chipping Knife Guard, Leather	1/4 lb.



Cat. No.	Description	Approx. Wt. Each
5574-S	Splitting or Chipping Knife Guard, Leather	1/4 lb.

KLEIN HIGH STRENGTH "CHICAGO" GRIPS

FOR EXTRA HIGH STRENGTH CABLES, MESSENGER, GUY STRAND AND CONDUCTORS



Double "V" grooves give four point contact reducing chance of slipping and assuring proper alignment. Designed for high strength guy and messenger but can be

used on any cable under 4/0. Larger conductors should have round inside contour of jaw.

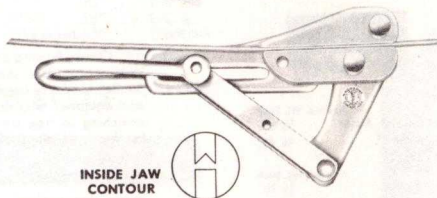
Cat. No.	Maximum Cable Size	Minimum Cable Size
1613-40	.37"	.10"
1613-40B	.37"	.10"
1628-5	.55"	.16"
1628-5B	.55"	.16"
1628-16	.62"	.31"
1628-16B	.62"	.31"
1628-17	.75"	.50"
1628-17B	.75"	.50"

Maximum Safe Load	Approx. Wt. Ea.	Jaw Length
4500 lb.	3 lb.	4"
4500 lb.	3 lb.	4"
8000 lb.	6 lb.	5"
8000 lb.	6 lb.	5"
15,000 lb.	15 1/2 lb.	7 1/4"
15,000 lb.	15 1/2 lb.	7 1/4"
15,000 lb.	17 lb.	7 1/4"
15,000 lb.	17 lb.	7 1/4"

B indicates bronze-lined jaws.

KLEIN "CHICAGO" GRIPS FOR BARE WIRE (SOLID AND STRAND)

Single "V" Groove Jaw



Cat. No.	Maximum Cable Size	Minimum Cable Size
1613-30	6 B & S Solid (.20")	12 B & S Solid (.08")
1613-30B	6 B & S Solid (.20")	12 B & S Solid (.08")

Maximum Safe Load	Approx. Wt. Ea.	Jaw Length
1500 lb.	1 1/2 lb.	3"
1500 lb.	1 1/2 lb.	3"

B indicates bronze-lined jaws.

TO CHOOSE THE CORRECT SIZE OF GRIP

- Consult reference tables on pages 42 and 43 for diameters of wire in general use. There is also a table of decimal equivalents of fractions.
- If you wish our recommendations for proper grip send outside diameters and full description of cable.
- Klein "Chicago" Grips with letter "B" after number have bronze lined jaws to avoid possible damage to conductor.

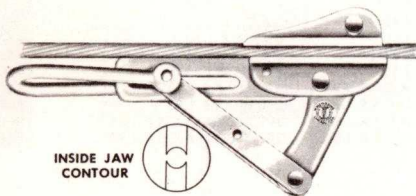
- All grips furnished with cadmium plate with dichromate gold overlay.
- "Chicago" Grips are furnished with self-locking loop handles which allow the grip jaws to be locked in open position. To lock, open jaws and fold loop handle toward the side plates. (This feature not standard on grips for hot line work. May be furnished on special order.)



KLEIN "CHICAGO" GRIPS FOR LARGE DIAMETER CONDUCTORS

For hollow conductors and other large diameter cables the jaws of the grip must be shaped to provide maximum contact with the circumference of the cable to prevent conductor damage. We hold grips in blank and finish as necessary. Allow 30 days for delivery.

ORDERS MUST SPECIFY EXACT OUTSIDE DIAMETER OF CABLE
MADE FOR ONE SIZE CABLE ONLY



INSIDE JAW
CONTOUR



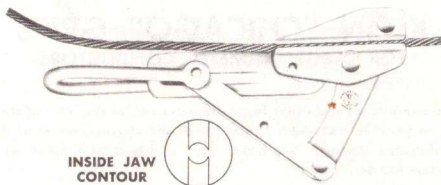
Cat. No.	Maximum Cable Size	Minimum Cable Size	Maximum Safe Load	Approx. Weight Each	Jaw Length
1656-AB	500,000 CM A.C.S.R. (.90")	3/0 A.C.S.R. (.50")	8000 lb.	7 1/2 lb.	5 1/2"
1628-16BP	477,000 CM A.C.S.R. (.88")	2 A.C.S.R. (.31")	15,000 lb.	17 lb.	7 1/4"
1628-30	1,033,500 CM A.C.S.R. (1.24")	477,000 CM A.C.S.R. (.83")	20,000 lb.	25 lb.	10 3/4"
1628-30B	1,033,500 CM A.C.S.R. (1.24")	477,000 CM A.C.S.R. (.83")	20,000 lb.	25 lb.	10 3/4"
1628-40	1,590,000 CM A.C.S.R. (1.54")	1,033,000 CM A.C.S.R. (1.24")	25,000 lb.	29 lb.	10 3/4"
1628-40B	1,590,000 CM A.C.S.R. (1.54")	1,033,000 CM A.C.S.R. (1.24")	25,000 lb.	29 lb.	10 3/4"
*1628-50	2,500,000 CM Alu. (1.82")	666,600 CM A.C.S.R. (1.00")	25,000 lb.	29 lb.	10 3/4"
*1628-50B	1,780,000 CM A.C.S.R. (1.60")	666,600 CM A.C.S.R. (1.00")	25,000 lb.	29 lb.	10 3/4"

B indicates bronze-lined jaws.

*Furnished with removable floating jaw, which allows maximum coverage of cables and eliminates conductor damage, particularly under heavy loads. The removable jaw is held in place by a bolt swaged into the lever arm of grip secured by a nut and cotter pin. It is necessary to remove the jaw of the grip to insert the cable.

KLEIN "CHICAGO" GRIPS

FOR BARE A.C.S.R., ALUMINUM AND STRANDED COPPER CABLES



The round, smooth jaw contour on this series of grips is ideal for bare A.C.S.R., aluminum and stranded copper cables as well as for larger sized cables 4/0 and

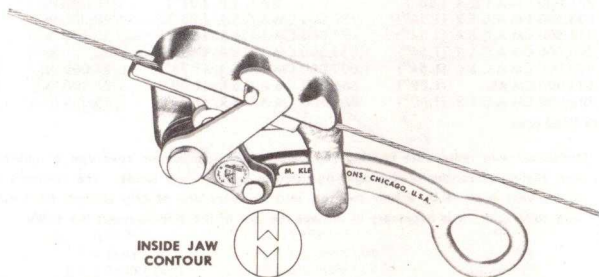
larger. The smooth jaws grip the cable with maximum contact and are less likely to damage conductors.

Cat. No.	Maximum Cable Size	Minimum Cable Size
1656-20	1/0 A.C.S.R. (.40")	6 A.C.S.R. (.20")
1656-20B	1/0 A.C.S.R. (.40")	6 A.C.S.R. (.20")
1656-30	3/0 A.C.S.R. (.53")	4 A.C.S.R. (.25")
1656-30B	3/0 A.C.S.R. (.53")	4 A.C.S.R. (.25")
1656-40	336,400 CM A.C.S.R. (.74")	3/0 A.C.S.R. (.53")
1656-40B	336,400 CM A.C.S.R. (.74")	3/0 A.C.S.R. (.53")
1656-50	477,000 CM A.C.S.R. (.88")	397,500 CM A.C.S.R. (.78")
1656-50B	477,000 CM A.C.S.R. (.88")	397,500 CM A.C.S.R. (.78")

Maximum Safe Load	Approx. Wt.-Ea.	Jaw Length
4500 lb.	3 lb.	4"
4500 lb.	3 lb.	4"
4500 lb.	3 3/4 lb.	4 3/4"
4500 lb.	3 3/4 lb.	4 3/4"
8000 lb.	7 1/2 lb.	5 1/2"
8000 lb.	7 1/2 lb.	5 1/2"
8000 lb.	7 1/2 lb.	5 1/2"
8000 lb.	7 1/2 lb.	5 1/2"

B indicates bronze-lined jaws.

KLEIN PARALLEL JAW GRIP



The new Klein Grip with longer parallel jaws assures a firm hold on the entire length of jaw. No danger of slipping thus reducing the possibility of damage to

cable. Safety latch prevents grip from falling off cable. The large eye will accommodate heavy hook on tackle blocks.

Cat. No.	Maximum Cable Size	Minimum Cable Size
1671-10	(.75)	(.375)
1671-10B	(.75)	(.375)
1671-10BH	(.75)	(.375)

Maximum Safe Load	Approx. Wt. Each	Jaw Length
10,000 lbs.	5 lbs.	4 3/8 in.
10,000 lbs.	5 1/8 lbs.	4 3/8 in.
10,000 lbs.	5 1/4 lbs.	4 3/8 in.

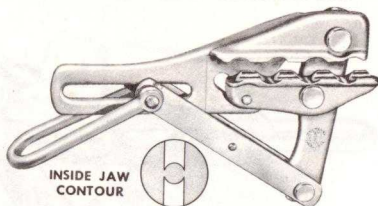
B indicates bronze-lined jaws.

BH indicates bronze-lined jaws and latch for hot line work.



KLEIN "CHICAGO" GRIPS

FOR PVC COVERED CONDUCTORS

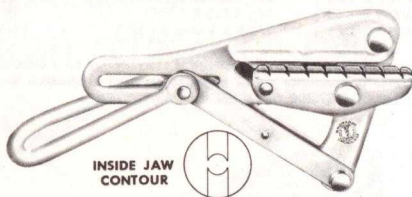


INSIDE JAW
CONTOUR

Specially machined jaws allow snaking insulated conductors through jaws, eliminating slippage and preventing conductor damage. No necessity to strip insulation from conductor.

Cat. No.	Maximum Conductor	Minimum Conductor	Maximum Safe Load	Approx. Weight Each	Jaw Length
1659-20	.42"	.20"	4,500 lb.	3 lb.	4"
1659-30	.50"	.31"	4,500 lb.	3 3/4 lb.	4 3/4"
1659-40	.79"	.49"	8,000 lb.	7 3/4 lb.	5 1/2"
1659-50	1.01"	.79"	8,000 lb.	7 3/4 lb.	5 1/2"

KLEIN "CHICAGO" GRIPS FOR WEATHERPROOF WIRE



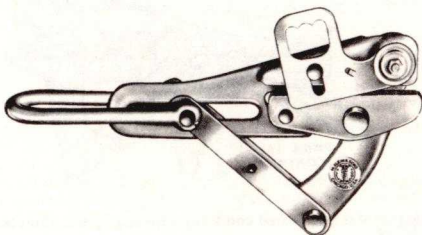
INSIDE JAW
CONTOUR

Cat. No.	Maximum Cable Size	Minimum Cable Size	Maximum Safe Load	Approx. Wt. Ea.	Jaw Length
1611-20	.40"	.20"	4500 lb.	3 lb.	4"
1611-30	.53"	.25"	4500 lb.	3 3/4 lb.	4 3/4"
1611-40	.74"	.53"	8000 lb.	7 3/4 lb.	5 1/2"
1611-50	.88"	.78"	8000 lb.	7 3/4 lb.	5 1/2"

NOTE: Due to various types of weatherproof coatings available, selection of proper grips is determined by outside diameter of cable.

KLEIN IMPROVED HOT LINE "CHICAGO" GRIPS

FURNISHED WITHOUT SPRING



May be placed on wire with hot line stick. When stick is removed, safety latch closes automatically—cannot fall off accidentally. For hot or dead work grips can be furnished with springs. If springs are desired, please prefix letter "S" before catalog number. Example S 1628-5BH. Lock open feature furnished on special order.

FOR BARE CONDUCTORS

Cat. No.	Maximum Conductor	Minimum Conductor	Maximum Safe Load	Approx. Wt. Ea.	Jaw Length
1613-40BH	1/0 B & S Strand (.37")	8 B & S Solid (.10")	4500 lb.	3 1/4 lb.	4"
1628-5BH	4/0 B & S Strand (.55")	6 Solid (.16")	8000 lb.	6 1/4 lb.	5"
1656-20BH	1/0 A.C.S.R. (.40")	6 A.C.S.R. (.20")	4500 lb.	3 1/4 lb.	4"
1656-30BH	3/0 A.C.S.R. (.53")	4 A.C.S.R. (.25")	4500 lb.	4 lb.	4 3/4"
1656-40BH	336,000 CM A.C.S.R. (.74")	3/0 A.C.S.R. (.53")	8000 lb.	7 3/4 lb.	5 1/2"
1656-50BH	477,000 CM A.C.S.R. (.88")	397,500 CM A.C.S.R. (.78")	8000 lb.	7 3/4 lb.	5 1/2"
* 1656-ABH	500,000 CM A.C.S.R. (.90")	3/0 A.C.S.R. (.50")	8000 lb.	7 3/4 lb.	5 1/2"
1671-10BH	336,000 CM A.C.S.R. (.75")	1/0 B & S Strand (.37")	10,000 lb.	5 1/4 lb.	4 3/8"

*For use on aluminum cables where minimum conductor damage is essential, we hold stock of parts, and jaws are milled to fit exact diameter of cable. Range of conductor size is given for general information and is made for one size cable only. ORDERS MUST SPECIFY EXACT OUTSIDE DIAMETER OF CABLE.

FOR INSULATED CONDUCTORS

Note: Due to various types of PVC and other weatherproof coatings, selection of proper grips is determined by O. D. of cable.

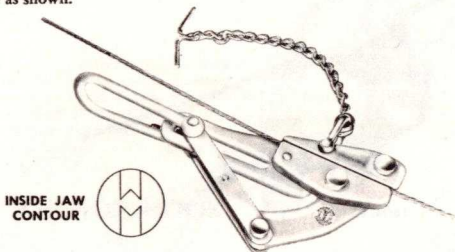
Cat. No.	Maximum Conductor	Minimum Conductor	Maximum Safe Load	Approx. Wt. Ea.	Jaw Length
1659-20H	.42"	.20"	4500 lb.	3 1/4 lb.	4"
1659-30H	.50"	.31"	4500 lb.	4 lb.	4 3/4"
1659-40H	.79"	.49"	8000 lb.	7 3/4 lb.	5 1/2"
1659-50H	1.01"	.79"	8000 lb.	7 3/4 lb.	5 1/2"



KLEIN "CHICAGO" GRIPS

Bell System Type

1628-5 AT is identical to Bell System type "L" strand puller and 1628-16 AT identical to Bell System type "H" strand puller. Fitted with chain, toggle and shackle as shown.



INSIDE JAW
CONTOUR

Cat. No.
628-5AT
628-16AT

Maximum
Cable Size
(.55")
(.62")

Minimum
Cable Size
(.16")
(.31")

Maximum
Safe Load
8,000 lb.
15,000 lb.

Approx.
Weight
Each
6 lb.
15 1/2 lb.

Jaw
Length
5"
7 1/4"

KLEIN "CHICAGO" GRIPS

For Figure 8 Telephone Cables

Cat. No.
613-80

Maximum
Cable Size
.109 support wire
maximum .17"

Minimum
Cable Size
.14"

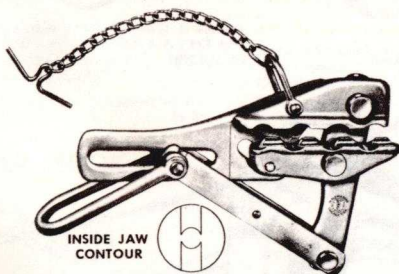
Maximum
Safe Load
1,500 lb.

Approx.
Wt. Ea.
1 1/2 lb.

Jaw
Length
3"

For support wire .134 and larger, refer to 1656 series. Outside diameter of support wire includes thickness of Polyethylene coating. Grips are applied to supporting member of cable.

KLEIN "CHICAGO" GRIPS



INSIDE JAW
CONTOUR

This grip is similar to Bell System Type B Strand Puller. Designed to pull 1/4 in. figure 8 telephone cable. Serpentine grooves mesh on insulation and strand preventing slippage. Fitted with chain, toggle and shackle to prevent grip from falling in case of disengagement with conductor.

Cat. No.
659-5AT

Maximum
Cable Size
.37"

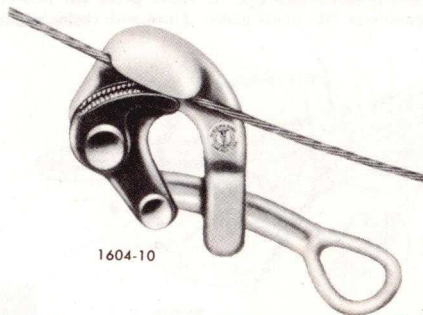
Minimum
Cable Size
.20"

Maximum
Safe Load
5,000 lbs.

Approx.
Wt. Ea.
6 lbs.

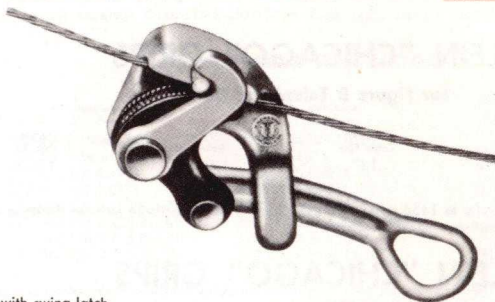
Jaw
Length
5"

KLEIN IMPROVED "HAVEN" GRIPS



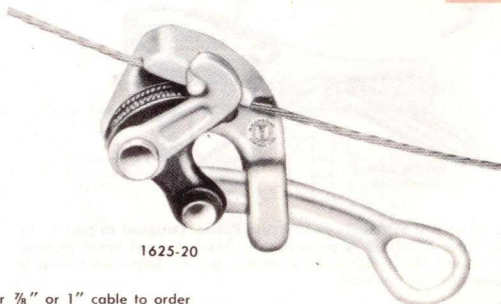
1604-10

Cat. No.	Maximum Cable Size	Minimum Cable Size	Maximum Safe Load	Approx. Weight
1604-10	4 B & S(.25")	14 B & S(.06")	2,500 lb.	1 lb.
1604-20	.50" Steel Strand	7 B & S(.12")	5,000 lb.	2 ½ lb.



Same as above but with swing latch

Cat. No.	Maximum Cable Size	Minimum Cable Size	Maximum Safe Load	Approx. Weight
1604-20L	.50" Steel Strand	7 B & S(.12")	5,000 lb.	2 ½ lb.

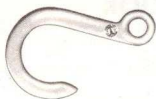


1625-20

Can be furnished for ¾" or 1" cable to order

Cat. No.	Maximum Cable Size	Minimum Cable Size	Maximum Safe Load	Approx. Weight
1625-20	.75" Wire Rope	2 B & S(.28")	8,000 lb.	3 ½ lb.

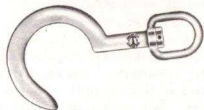
ANCHOR HOOK FOR TACKLES



A drop forged steel hook approximately $5\frac{1}{2}$ " long by $3\frac{1}{4}$ " across the throat. Eye has an inside diameter of $\frac{3}{8}$ " to engage with snap on Klein Tackle No. 1802-30 and H-1802-30. Galvanized finish. Designed to slip under insulator and engage pin of cross arm.

Cat. No. 258	Max. Safe Load 1,500 lbs.	Approx. Wt. Each $\frac{1}{4}$ lb.
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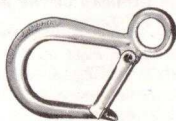
SWIVEL ANCHOR HOOK



Drop forged steel. Approximately $6\frac{1}{2}$ " long and $3\frac{1}{4}$ " across the throat. Swivel clevis will engage with snap on Klein Tackles No. 1802-30 and H-1802-30. Swivel prevents twisting and kinking of rope. Inside dimension eye 1".

Cat. No. 259	Max. Safe Load 1,500 lbs.	Approx. Wt. Each $\frac{3}{8}$ lb.
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SAFETY SNAP HOOK



Made of drop-forged steel. Designed to snap over ladder rungs or re-bar reinforcements which are used in construction. Maximum throat opening $1\frac{1}{2}$ ". Inside diameter of eye 1". Overall length $6\frac{1}{4}$ ".

Cat. No. 457-5	Max. Safe Load 5,000 lbs.	Approx. Wt. Each $\frac{1}{2}$ lb.
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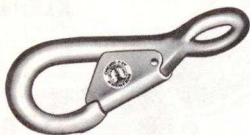
SPREADER HOOK



Drop forged, welded construction designed for use with tree trimmer harness. Comfort is increased because the rings are separated approximately 8" relieving leg pressure and allowing greater freedom of leg movement while harness is worn. Inside diam. center eye $1\frac{1}{8}$ ". Throat opening in snaps $1\frac{1}{16}$ in.

Cat. No. 456	Approx. Wt. Each 1 lb.
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HAND LINE SNAP HOOKS



Drop forged steel. Length overall $5\frac{1}{2}$ ". Eye is 1" I.D. Snap opens to $\frac{3}{4}$ ".

Cat. No. 443-A	Max. Safe Load 1,500 lbs.	Approx. Wt. Each $\frac{1}{2}$ lb.
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Rope snap hook made of drop forged steel. Maximum throat opening $1\frac{1}{16}$ ". Inside diameter of eye $1\frac{1}{8}$ ". Overall $5\frac{1}{4}$ ".

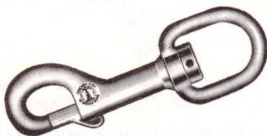
Cat. No. 468-5	Max. Safe Load 5,000 lbs.	Approx. Wt. Each $\frac{1}{2}$ lb.
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468-NS Same design as 468-5 but forged of non-sparking bronze alloy. Approximately 750 lb. tensile.



Rope snap hook made of drop-forged steel. Maximum throat opening $11/16$ ". Inside diameter of eye $1\frac{1}{8}$ ". Overall length $5\frac{1}{4}$ ". Equipped with positive safety lock.

Cat. No. 468-L	Max. Safe Load 5,000 lbs.	Approx. Wt. Each $\frac{1}{2}$ lb.
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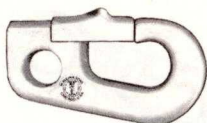
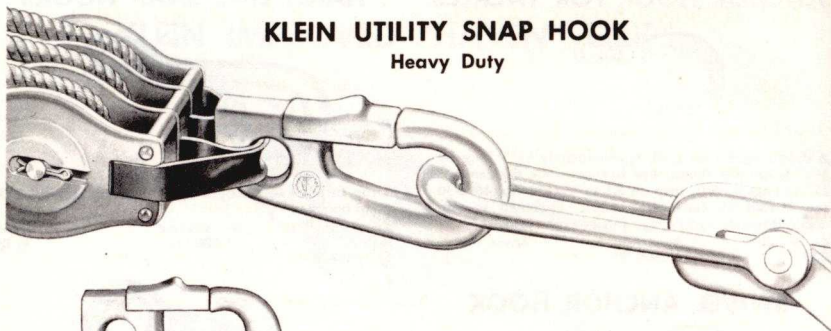


Drop forged steel with swivel clevis and quick acting plunger style latch. Designed to take $\frac{1}{2}$ " or lighter hand lines. Swivel action prevents accidental fouling into secondary wires. Inside dimension swivel eye 1".

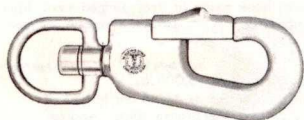
Cat. No. 470	Max. Safe Load 750 lbs.	Approx. Wt. Each $\frac{1}{4}$ lb.
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KLEIN UTILITY SNAP HOOK

Heavy Duty



No. 455



No. 455-S

This hook is designed to meet requirements of safety engineers. It will not come loose on a slacked line, is easy to apply and is able to pull up a transformer or other heavy load. No taping or wiring of throat is necessary. Quickly pays for itself in time and material saved. Attaches securely for maximum safety thus guarding groundman.

Made of forged steel designed to carry a working load of 8,000 lb. with adequate safety factor. Snaps on with one hand and may be used on any conventional steel block 4 inches or smaller by simply replacing conventional hook with Klein Snap Hook.

No. 455 furnished with eye 15/16-inch I.D. Can be supplied with eye 1-1/4-inch I.D. for larger block.

Cat. No.	Description	Length	Wt. Each
455	Solid eye	4 1/2 in.	1 lb.
455-S	Swivel eye 3/4 in. long	7 1/2 in.	1 1/4 lb.

SAFE LOAD ON ALL SNAP HOOKS—8000 LB.



HOOK CAN'T
FALL OFF



NO TAPE
NECESSARY



SELF LOCKING BLOCK TACKLE



Light steel shell blocks galvanized, fitted with snubbing hook to lock load in any position. Sheaves are aluminum alloy and are bronze bushed. May be had with drop forged hook #258 or swivel hook #259. These hooks are designed to fit under insulator and engage pin on cross arm. Rope is of highest quality four-strand Manila. Rope not spliced to block. Safe load 1200 lb.

Cat. No.	Description	Approx. Wt. Each
1802-30	Furnished with 25 ft. $\frac{3}{8}$ in. rope and detachable hook No. 258	2 $\frac{1}{2}$ lb.
1802-30SR	Same as 1802-30 but with rope attached to block.	
1802-30S	Furnished with 25 ft. $\frac{3}{8}$ in. rope and detachable swivel anchor hook No. 259	2 $\frac{1}{2}$ lb.
1802-30SSR	Same as 1802-30S but with rope attached to block.	

SELF LOCKING BLOCK TACKLE (WITH GUARDED SNAPS)



Identical with the block tackle described above except that the snaps are "guarded." The nose of each hook is lengthened to extend over the latch or keeper. Safe load 1,200 lb. Rope not spliced to block.

Cat. No.	Description	Approx. Wt. Each
H1802-30	Furnished with 25 ft. $\frac{3}{8}$ in. rope and detachable hook No. 258	3 $\frac{1}{2}$ lb.
H1802-30SR	Same as H1802-30 but with rope attached to block.	
H1802-30S	Furnished with 25 ft. $\frac{3}{8}$ in. rope and detachable swivel anchor hook No. 259	3 $\frac{1}{2}$ lb.
H1802-30SSR	Same as H1802-30S but with rope attached to block.	

KLEIN HAND LINES

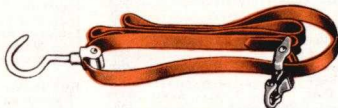


Highest grade four-strand Manila rope spliced to eye of snap hook #443-A. Snap hook is similar to those used on safety straps except that it has a round eye. Hook opens to $\frac{3}{4}$ ".

Other lengths of rope can be furnished to order.

Cat. No.	Description	Weight Each
1803-60	With 75 ft. $\frac{3}{8}$ " rope and #443-A snap	3 $\frac{1}{2}$ lb.
1804-60	With 75 ft. $\frac{3}{8}$ " rope and #470 swivel snap	3 $\frac{1}{2}$ lb.
1803-75	With 75 ft. $\frac{1}{2}$ " rope and #443-A snap	5 lb.
1804-75	With 75 ft. $\frac{1}{2}$ " rope and #470 swivel snap	5 lb.

HOWE WIRE TOOL



Strap made of Klein-Kord nylon. Swivel hook of forged steel with large opening. Shank of hook lengthened to reach under insulator. Other end has locking device to hold the load at any distance. All metal parts are galvanized finish.

Cat. No.	Size	Weight Each
1702-20N	Klein-Kord Nylon Strap 1" wide, 7' long	2 lb.
241N	Extra Klein-Kord Nylon Strap for Above	

"CHICAGO" LINEMANS TOOL



This combines the wire tool shown above #1702-20N with a "Chicago" Grip #1613-30.

Other sizes of grips in this combination can be furnished on special order.

Cat. No.	Size	Weight Each
1700-30N	For 6 wire and smaller down to 12 B&S. with Klein-Kord Nylon Strap	3 $\frac{1}{2}$ lb.
241N	Extra Klein-Kord Nylon Strap for Above	

ALPHABETICAL INDEX

This PTG version of the Klein Catalog is divided into two sections.
 Pages 1T through 33T are in the front section.
 Pages 2S through 41S are in the back section.

The front section is largely devoted to tools and the back section to safety equipment.

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Ankle Straps	17S	Grips	32S-38S	"PoleMaster" Climbers	16S
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Bags, Line Hose	30S	Hammers	24T-25T	Push Drills	19T
Bags, Tool	27S	Hammer Holders	11S	Q	
Bags, Utility	10S	Hand Crimper	32T	Quick Release Belts	19S
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5491	25S	63101	32T	68047	30T
5492	25S	63110	32T	68048	30T
5492-W-10	25S	63115	32T	68049	30T
5493-W-10	25S	63120	32T	68050	30T
5502	31S	63125	32T	68051	30T
5503	31S	63126	32T	68052	30T
5505	31S	63135	32T	68053	30T
5506	31S	63140	32T	68054	30T
5507	31S	64000	19T	68055	30T
5508	31S	64001	19T	68200	30T
5509	31S	64002	19T	68201	30T
5509-L	31S	64003	19T	68202	30T
5510	31S	64004	29T	68203	30T
5511	31S	64005	29T	68204	30T
5512	31S	64010	19T	68205	30T
5515	31S	65001	17T	68206	30T
5517	31S	65101	16T	68220	30T
5520-L	31S	65104	16T	68222	30T
5522	31S	65201	17T		

GUARANTEE

All Klein and Klein-Buhrke products are guaranteed against defect in material and workmanship under normal use and proper operation.

Any equipment which, on examination, is found to be defective will be replaced without charge, but none will be replaced if it shows evidence of having been tampered with or if it has been improperly used.

KLEIN DISTRIBUTION

To serve users of Klein tools and equipment the company has developed an extensive distribution through wholesalers, safety supply houses and industrial distributors. These distributors stock Klein tools and equipment and are in a position to render prompt service. On items which they do not stock, they will receive prompt delivery from the factory. Order through your local distributor. Writing to the factory will only delay your order.

CHAPTER II

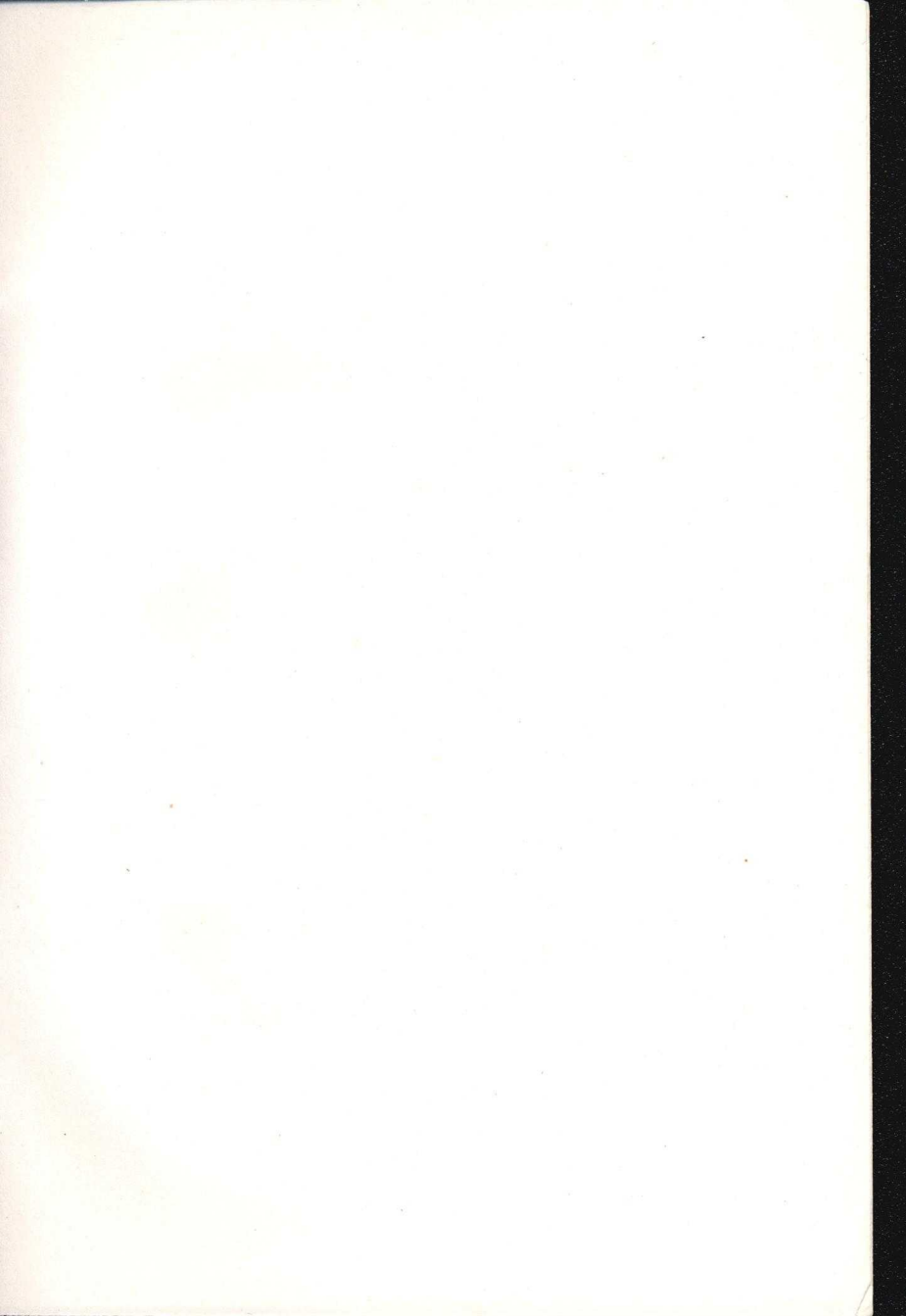
Date	Particulars	Debit	Credit	Balance	Total	Total	Total	Total	Total
1890									
Jan 1	Balance forward								
Jan 2	Jan 1								
Jan 3	Jan 2								
Jan 4	Jan 3								
Jan 5	Jan 4								
Jan 6	Jan 5								
Jan 7	Jan 6								
Jan 8	Jan 7								
Jan 9	Jan 8								
Jan 10	Jan 9								
Jan 11	Jan 10								
Jan 12	Jan 11								
Jan 13	Jan 12								
Jan 14	Jan 13								
Jan 15	Jan 14								
Jan 16	Jan 15								
Jan 17	Jan 16								
Jan 18	Jan 17								
Jan 19	Jan 18								
Jan 20	Jan 19								
Jan 21	Jan 20								
Jan 22	Jan 21								
Jan 23	Jan 22								
Jan 24	Jan 23								
Jan 25	Jan 24								
Jan 26	Jan 25								
Jan 27	Jan 26								
Jan 28	Jan 27								
Jan 29	Jan 28								
Jan 30	Jan 29								
Jan 31	Jan 30								
Feb 1	Jan 31								
Feb 2	Feb 1								
Feb 3	Feb 2								
Feb 4	Feb 3								
Feb 5	Feb 4								
Feb 6	Feb 5								
Feb 7	Feb 6								
Feb 8	Feb 7								
Feb 9	Feb 8								
Feb 10	Feb 9								
Feb 11	Feb 10								
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Feb 30	Feb 29								
Feb 31	Feb 30								

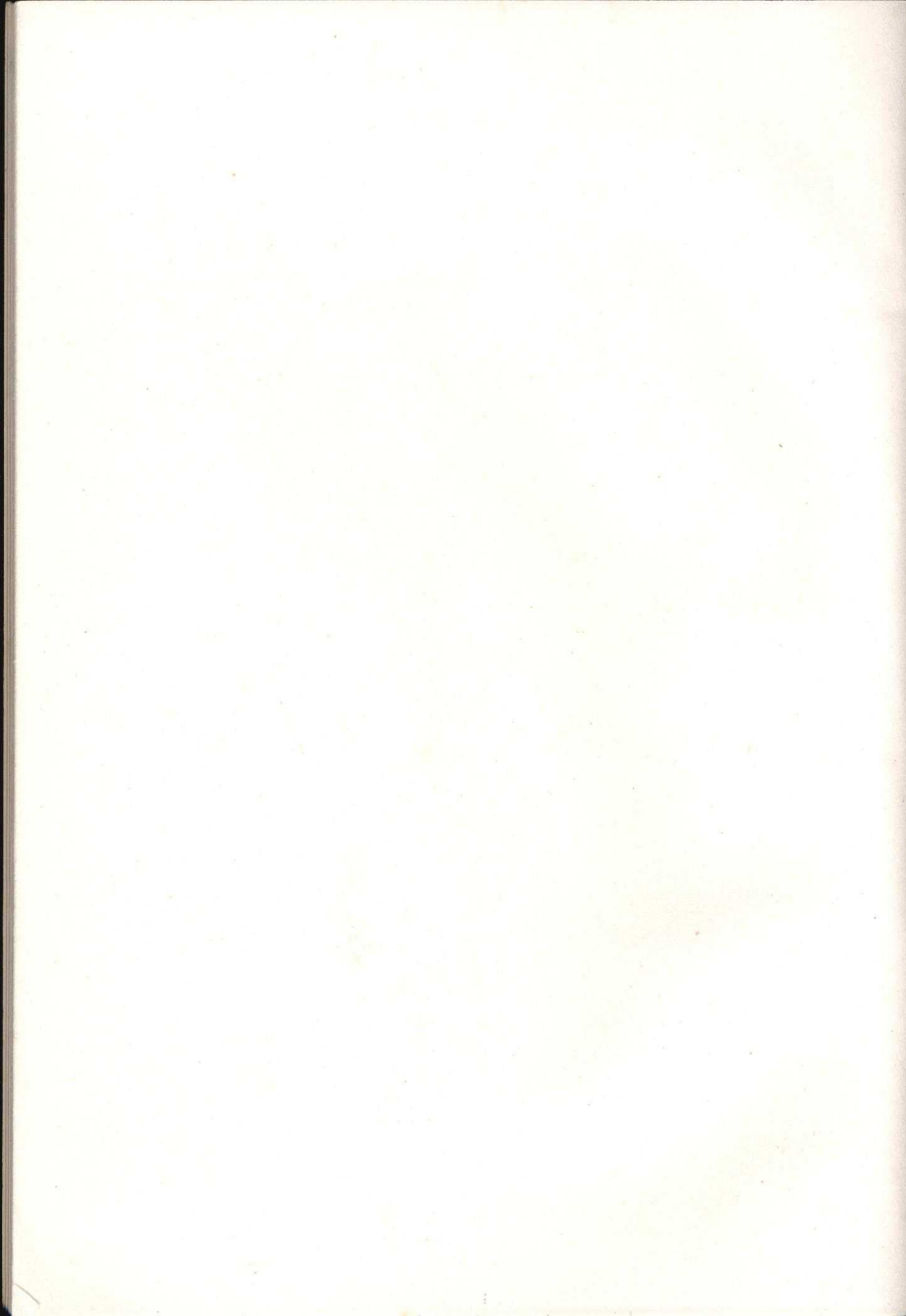
CHAPTER III

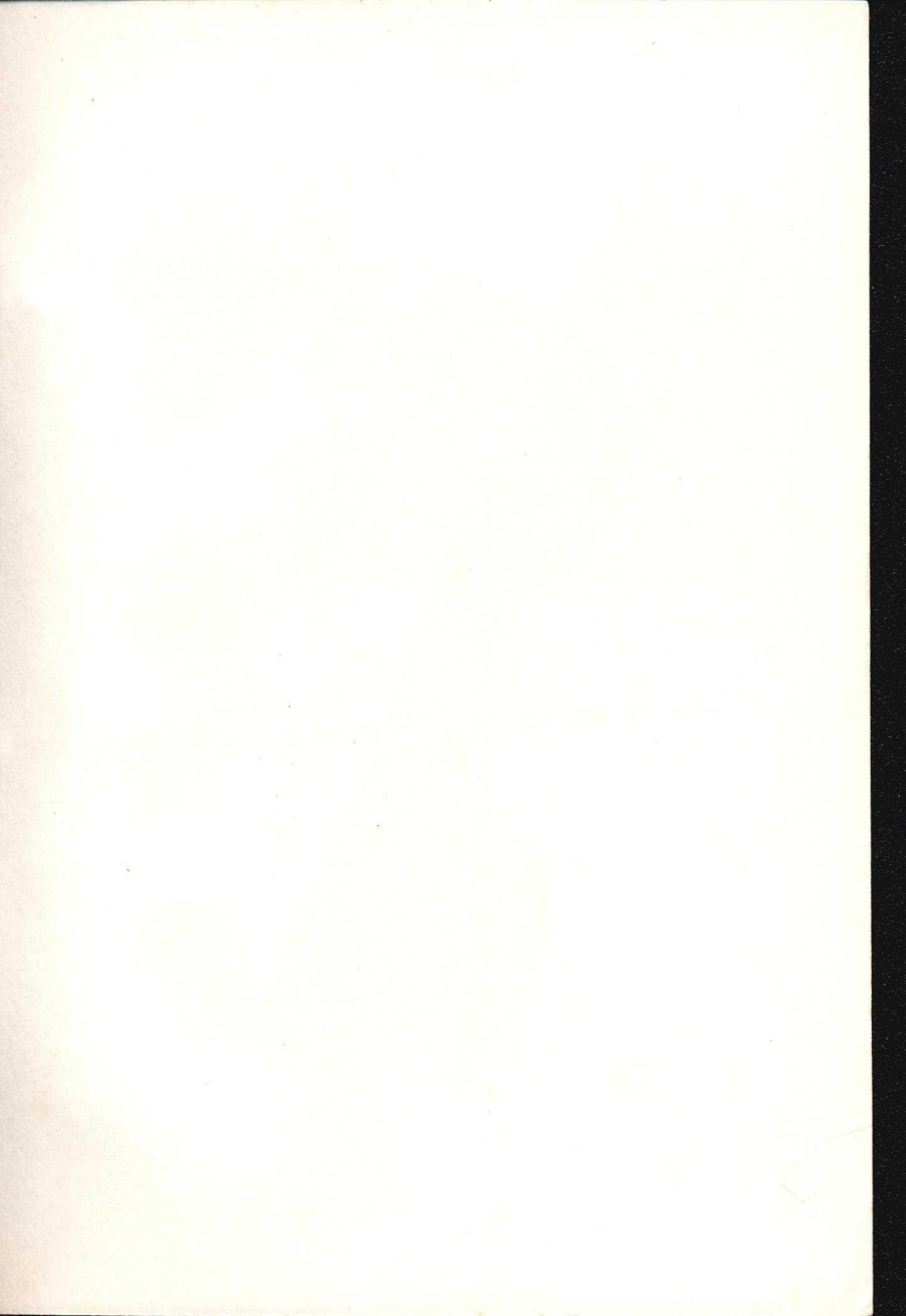
There are two methods of accounting for the business of a company. One is the single entry system, and the other is the double entry system. The single entry system is the simplest, but it is not so accurate as the double entry system. The double entry system is the more accurate, but it is more complicated. The double entry system is the one that is used by most large companies.

CHAPTER IV

The first step in the double entry system is to determine the assets and liabilities of the company. The assets are the things that the company owns, and the liabilities are the things that the company owes. The next step is to determine the capital of the company. The capital is the money that the owners have put into the company. The next step is to determine the income and expenses of the company. The income is the money that the company has earned, and the expenses are the money that the company has spent. The next step is to determine the profit of the company. The profit is the money that the company has left over after all the expenses have been paid. The next step is to determine the balance of the company. The balance is the money that the company has at the end of the year.









KLEIN — *World Standard for quality*